## **Integrated Detection of Pathogens and Host Biomarkers for Wounds**

Military Interdepartmental Purchase Request: MIPR1EO89M1115

## **Crystal Jaing** Lawrence Livermore National Laboratory



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effective treatment	t. Infection, excess	ive inflammation, ar	ia inclaence of arug	-resistant orga	anisms all contribute toward		
negative outcomes for afflicted individuals. The organisms and host processes involved in wound progression, however, are							
not well understoo	not well understood. We therefore set out, using our unique technical resources, to construct a profile of combat wounds. We						
employed the Lawrence Livermore Microbial Detection Array and next-generation sequencing to identify all microorganisms							
employed the Law			hay and hext gener		allowed for comprehensive		
present in wound	samples, building co	omplete profiles of v	vound infection. In	ese methods	allowed for comprehensive		
assessment of the	wound bioburden,	revealing pathogen	s that could not be o	detected by st	andard microbiology. Further, we		
developed and applied proteomics technology and identified host biomarkers associated with wound resolution. In							
combination with our pathogen data, these biomarker discovery efforts will provide a profile that will assist in clinical outcome							
classification and will provide vital insight for treatment of these complex cases							
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#### **Table of Contents**

## Page

Introduction	4
Body: Research methods and results	5
Aim 1	5
Aim 2	9
Aim 3	13
Key Research Accomplishments	14
Reportable Outcomes	14
Conclusion	15
References	16
Appendices	17

#### **INTRODUCTION**

Modern combat environments present many unique and difficult challenges to the evolution of medical treatment for the warfighter. Improvised explosive devices, increasing number and severity of injuries per casualty, longer transport times, and higher died-of-wound rates have necessitated a reassessment of our approach to wound treatment.

One of the most important determining factors in wound resolution is the degree to which infection is observed, and whether the infection manifests in an acute or chronic manner. Previous studies of wound infection have focused on a relatively small subset of well-characterized pathogens such as *Staphylococcus aureus* and *Pseudomonas aeruginosa* [1-3]. Recent studies, however, indicate that analysis of wound infection via standard microbiological techniques likely overestimates the importance of readily-cultured species in chronic wounds [4]. It is becoming clear that the community of microorganisms inhabiting the human body, collectively known as the human microbiome, represent tremendous breadth and microbial diversity, and that a much broader range of organisms likely plays a role in wound response. Many of these organisms may be difficult or impossible to culture using standard protocols, and their importance in infection may be previously unrecognized. A comprehensive approach is therefore needed in order to completely assess the role of microbial communities in wound pathology.

Also highly relevant to treatment of combat wounds are host response mechanisms. Biomarkers such as inflammatory cytokines and chemokines could provide informative indications of likely outcome and appropriate timing of wound closure [5]. Past studies examining the chemical immune response in serum and wound effluent demonstrated that such biomarkers are capable of predicting healing and identifying instances where immune dysregulation results in healing failure [6]. This process also involves the regulation of matrix remodeling metalloproteinases, profiles of which have predicted outcome for traumatic war wounds [7].

Construction of a comprehensive panel of host response biomarkers, in combination with a microbial profile of corresponding wounds, would aid tremendously in clinical decision-making. We therefore assembled a collaborative and experienced team, combining the extensive clinical wound research expertise and the unique wound sample collection from the Naval Medical Research Center (NMRC), the advanced and proven bioinformatics and pathogen detection expertise from the Lawrence Livermore National Laboratory (LLNL), and the proteomic and biomarker research expertise from the University of California, Davis to conduct a comprehensive characterization of microorganisms and host proteins associated with negative or positive wound outcomes. A Cooperative Research and Development Agreement (CRADA) was established between the three institutions to perform this study. In year 2, the CRADA was expanded to include Walter Reed Army Institute of Research as a collaborator to gain additional expertise in wound infection and microbial characterization.

We elected to analyze wound samples using the Lawrence Livermore Microbial Detection Array (LLMDA) [8], which is a highly cost-effective detection and discovery platform for the identification of a very broad range of microbes. For host factors, we optimized a 2-D difference gel electrophoresis (2D DIGE) system to identify protein biomarkers. Our unique approach of characterizing both host and pathogen profiles in wound healing will reveal unique aspects of these essential interactions and will improve the ultimate outcome and quality of life of wound victims.

#### **BODY: RESEARCH METHODS AND RESULTS**

#### Aim 1: Detection of microbial pathogens in wounds (LLNL)

#### **Methods**

*Nucleic acid processing from wound samples.* Tissue and effluent samples were collected from 131 debridement procedures representing 61 wounds in 44 combat-injured service member patients evacuated to the National Capital Area from Iraq and Afghanistan. We extracted nucleic acid from tissue and effluent using the DNA mini kit and Qiaamp cador pathogen mini kit (Qiagen). Briefly, we disrupted and homogenized tissues and cells via bead-beating and high-speed vortexing in the presence of 0.1 mm silica/zirconia beads, performed further cellular digestion by incubation with proteinase K, and collected and purified nucleic acid using the manufacturer's provided centrifugation columns.

*Microarray sample preparation and hybridization.* We labeled resultant DNA with Cy3 fluorescent dye (Roche) using random primers and isothermal amplification with klenow polymerase. Labeled DNA was purified via isopropanol precipitation and resuspended in water for microarray hybridization. The recently updated LLMDA (version 5) contains probes designed to detect genomic DNA from all currently sequenced microbial pathogens. All data derived during year two of this project employed the 12-plex version of this updated array. DNA samples were prepared for hybridization using the Nimblegen Hybridization Kit LS (Roche). Ten µg labeled DNA was hybridized to each array, followed by incubation for 45-60 hours at 42°C. Arrays were washed using the Nimblegen Wash Buffer Kit (Roche) and scanned at 2 µm resolution using the Nimblegen MS200 microarray scanner.

*Microarray data analysis.* We analyzed data using an automated composite likelihood maximization method developed at LLNL [8]. We required that positive probes exhibit a signal intensity in the 99<sup>th</sup> percentile above random negative control probes. Additionally, eight probes were required to be detected from a given sequence in order for that target to qualify as a positive target, and these detected probes were required to comprise at least 20% of total expected probes for the given target.

*Next-generation sequencing.* We selected six wound samples for a pilot next-generation sequencing analysis. Sequencing was performed at the California Institute for Quantitative Biosciences, Vincent J. Coates Genomics Sequencing Laboratory (Berkeley, CA). DNA samples were processed on the Illumina Hiseq 2000 platform using 100 bp paired-end reads, multiplexing three samples in each flow cell lane. We employed a whole genome sequencing approach in order to capture information from bacterial, plasmid, viral, and fungal sequence data. We processed the resultant data using the recently developed Livermore Metagenomics Analysis Toolkit (LMAT), a novel software platform for scalable metagenomic taxonomy classification using a local reference genome database.

#### Results

*Microorganisms detected in wound samples by LLMDA*. Initial studies in year one of this project encountered challenges relating to the high level of background human DNA present in these samples. We have since optimized sample preparation and performed all subsequent hybridizations using the updated LLMDA v5 platform. This platform yielded more specific

results, and provided for more sensitive detection even in the presence of large quantities of "contaminating" host DNA.

Fifty percent of the 131 wound samples analyzed via the LLMDA yielded at least one detected organism upon analysis (Table 1). Of these array-positive samples, 29% were indicated to contain more than one microbial species. Select samples had also been previously interrogated for bacterial presence via quantitative culture as part of a separate ongoing study. Of the culture-negative samples, 37% were indicated to contain at least one bacterial species via LLMDA. While the received tissue and effluent samples were not always matched (ie. not necessarily obtained from the same individual at the same time point), it was observed that certain organisms, such as *Pseudomonas*, were more commonly observed in effluent, while others, such as *Klebsiella* and *Enterobacter* were more frequently found in tissue (Figure 1). *Acinetobacter* were represented prominently in both samples types. Complete array results and corresponding culture data are given in Appendix A. Several cases exist where LLMDA detection does not correspond precisely with cultured organism. However, as will be noted in observations from aim 2, LLMDA detection of microorganisms by LLMDA provides a superior predictive profile of wound status.

The most commonly observed group of organisms included those belonging to the *Acinetobacter* genus, represented in 38 samples (29%), with 28 of these being indicated to specifically contain *Acinetobacter baumannii* (Table 1). Detection of *A. baumannii* often occurred in the context of multiple detected strains, which may indicate either co-colonization or the presence of a novel, unsequenced strain. Other bacterial species that were detected in more than 3% of samples were *Escherichia coli* (5.3%), *Klebsiella pneumoniae* (4.6%), *Borrelia afzelii* (3.8%), *Enterobacter cloacae* (3.8%), and *Salmonella enterica* (3.1%).

Microorganism	Number of positive samples	Microorganism	Number of positive samples
Acinetobacter sp.	30	Uncultured bacterium plasmid pB10	2
Acinetobacter baumannii	28	Achromobacter xylosoxidans	1
Escherichia coli	7	Aspergillus niger	1
Klebsiella pneumoniae	6	Bacteroides plebeius	1
Borrelia afzelii	5	Bordetella avium	1
Enterobacter cloacae	5	Corynebacterium bovis	1
HPV 57	5	Enterobacter asburiae	1
HPV 71	5	Enterobacter sp.	1
HHV 6A	4	Enterococcus faecium	1
Salmonella enterica	4	Pasteurella multocida	1
Bacteroides fragilis	3	Pseudomonas entomophila	1
Human parvovirus	3	Pseudomonas putida	1
Mycobacterium abscessus	3	Pseudomonas stutzeri	1
Pseudomonas sp.	3	Roseburia hominis	1
Bacillus cereus	2	Salmonella enteritidis	1
Pseudomonas aeruginosa	2	Shigella sonnei	1
Ralstonia solanacearum	2	Staphylococcus aureus	1
Staphylococcus lugdunensis	2	Staphylococcus epidermidis	1
Streptomyces sp.	2		

#### Table 1. Microorganisms detected in wound samples by LLMDA.



Figure 1. Microorganisms detected in wound tissue or effluent by LLMDA.

*Microorganisms detected by next-generation sequencing.* DNA from a pilot set of six samples was subjected to next-generation sequencing (Table 2). All data were analyzed using the Livermore Metagenomics Analysis Toolkit and visualized using Krona [9]. Results revealed distinct differences both in the composition and relative diversity between individual wound samples. Due to a high degree of human cellular content in these samples, and our whole genome sequencing approach, a large proportion, approximately 75%, of total reads aligned to the human genome. Reads corresponding to bacterial genomes represented between 0.5 and 9.0% of total sequence data.

Sample	Туре	Culture growth	Array detection	Wound status	% Bacterial reads
KS702EBON	Effluent	None	Acinetobacter baumannii Escherchia coli Shigella sonnei	Dehisced	9
IS712EBON	Effluent	None	Acinetobacter baumannii Pseudomonas aeruginosa	Dehisced	4
IS712WA	Tissue	None	Enterobacter cloacae Staphylococcus lugdunensis Borrelia afzelii	Dehisced	0.6
JT691ECON	Effluent	None	Acinetobacter baumannii Pseudomonas putida Pseudomonas entomophila	Dehisced	5
JG352EA2	Effluent	Acinetobacter sp. Alloicoccus otidis	None	Dehisced	0.6
TN631WB	Tissue	Enterococcus faecium	None	Healed	0.5

Table 2.	Samples selected	for next-generation	sequencing pilot run.
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Sequence data derived from array-positive samples demonstrated lower overall microbial diversity relative to those in which no organisms were detected via orthogonal techniques. In array-positive samples, over 50% of total bacterial sequence data aligned to two or fewer individual species. In sequence derived from sample KS702EBON, in which *A. baumannii* was the top array hit, 45% of sequenced reads corresponded to this species. Similarly, in sample IS712EBON, 71% of sequenced reads aligned to the array-detected species *P. aeruginosa* and 4% to *A. baumannii* (Figure 2). The samples that were observed to be microbe-negative according to the detection array showed broader diversity, and were more representative of the broader microbiome (Appendix B).

## Figure 2. Hierarchical charts demonstrating bacterial species detected by analysis of metagenomic sequence data. Left. Sample KS702EBON. Right. Sample IS712EBON



For sequencing identification at the strain level, identified strains and sub-strains largely correlated with those identified using the LLMDA (Table 3). In particular, the most common strains belonging to the *A. baumannii* group detected by the array included strains 6013150, ACICU, and AB0057. These three subtypes were also the most frequently observed via next-generation sequencing. These observations support the use of the array technology for rapid, low-resolution genotyping. In many cases, multiple *A. baumannii* strains were identified both by detection array and sequencing. This may indicate co-colonization by multiple strains, but could also point toward the presence of a unique unidentified *A. baumannii* strain.

Strains/plasmids detected by LLMDA	Strains detected by sequencing
Acinetobacter sp. 6013150	Acinetobacter baumannii ACICU
Acinetobacter baumannii plasmid ACICU	Acinetobacter baumannii 6013150
Acinetobacter baumannii plasmid pAB0057	Acinetobacter baumannii AB0057
Acinetobacter baumannii plasmid pRAY	Acinetobacter baumannii TCDC-AB0715
Acinetobacter baumannii AB307-0294	Acinetobacter baumannii MDR-ZJ06
Acinetobacter baumannii plasmid pAB2	Acinetobacter baumannii 6014059
	Acinetobacter baumannii 6013113
	Acinetobacter baumannii AB900
	Acinetobacter baumannii ATCC 17978
	Acinetobacter baumannii SDF
	Acinetobacter baumannii ATCC 19606
	Acinetobacter baumannii 1656-2
	Acinetobacter baumannii AB307-0294

#### Table 3. A. baumannii strains detected in sample KS702EBON by LLMDA and sequencing.

Our observed results underscore the importance of a more comprehensive microbial detection strategy. As was noted, many of the microorganisms detected by the LLMDA and sequencing were not cultured via standard techniques. Additionally, a number of microorganisms not previously implicated in wound or hospital-acquired infections were identified to be present. These organisms may very well play an as-of-yet unrecognized but important role in wound healing, which could be highly relevant to the course of treatment for a patient.

## Technical challenges and practiced mitigation

- 1. Sample preparation methods initially applied in this project were deemed non-ideal for nucleic acid analysis due to incomplete homogenization of the sample and protocols that may not have been sufficient for complete disruption of gram-positive bacteria. More extensive disruption protocols were therefore applied, including thorough bead beating, high-speed vortexing, and high temperature proteolytic lysis.
- 2. When subjected to sequencing, DNA extracts derived from wound tissue samples yielded high percentages (>99%) of human DNA sequence data. Future sequencing runs will therefore focus on effluent samples, as they demonstrated larger percentages of bacterial sequence data, in addition to being more clinically accessible.

# Aim 2: Identification of biomarkers for host responses in combat wounds (UC Davis, Naval Medical Research Center)

### Methods

*High abundant protein removal.* Depletion of high abundant proteins was performed according to the manufacturer's instructions (Agilent Technologies). Briefly, human effluent or serum was diluted five-fold in Buffer A and centrifuged through a 0.22 micron spin filter tube at 16,000 x g for 5 min to remove particulates. Then effluent fluid or serum was processed using Multiple Affinity Removal Column Human-6, which specifically removes albumin, IgA, IgG, antitrypsin, transferrin and haptoglobin. A low abundant protein fraction was collected for each sample. Fractions were concentrated by precipitating with an equal volume of 20% trichloroacetic acid solution and incubated at  $4^{\circ}$ C for 30 min. Precipitate was centrifuged and

washed, allowed to air dry, and then resuspended in DIGE labeling buffer. Protein quantification was performed using Precision Red Advanced Protein Assay Reagent (Cytoskeleton).

2-D DIGE. Crude and high abundant protein depleted effluent and serum samples were separated in 2 dimensions according to the GE Life Sciences Ettan DIGE system protocol. Briefly, each sample (50 µg) was minimally labeled with Cy2, Cy3 or Cy5 for 30 min. The samples were pooled together and added to rehydration buffer. Sample was loaded onto 24 cm ph3-10NL Immobiline DryStrips (GE Life Sciences) and focused by active overnight rehydration, followed by isoelectric focusing for a total of 62,500 Vhrs. Strips were equilibrated with 10 mg/ml DTT for 15min followed by 25 mg/ml for 15 min with iodoacetamide, then applied to DIGE gels (GE Life Sciences) for 2nd dimension separation. The resulting CyDye labeled protein gels were scanned using 100 micron resolution on Typhoon 9410 (GE Life Sciences). Spot detection and abundance quantification was performed using the differential in-gel analysis (DIA) module of DeCyder.

#### Results

2-D DIGE analysis of effluent and serum after high abundant protein removal. Combat wound samples sent from NMRC to UC Davis were processed using the empirically-determined optimized protocols described above. Our results highlight 2-D DIGE results that compare both sample types and characterize the proteomes, comprising 1,800 and 1,200 protein spots, respectively. Furthermore, we show that high abundant protein removal is necessary for both serum and wound effluent to obtain reproducible results. Figure 3 shows typical wound effluent (panel A) and serum (panel B) 2-D DIGE images following high-abundant protein removal. High abundant protein removal enables the appearance of numerous lower abundant proteins that are now detectable. We have further established these methods to be used in putative biomarker discovery between samples that heal and samples that do not heal.

**Figure 3. Overlay 2-D DIGE Images of Wound Effluent (A) and Serum (B).** Images show a significant number of protein spots that are increased over these samples prior to high abundant protein removal.



*Differential protein expression determined by 2-D DIGE.* In addition to our efforts on improving proteomic sample preparation for these samples, we also were able to find putative biomarkers in both sample types. For the wound effluent samples, there were 52 protein spots that were found to be differentially expressed when comparing healed vs. dehisced. These 52 proteins were identified by mass spectrometry and were analyzed for their expression pattern. Figure 4 shows the types of protein expression changes and provides five categories for expression that these proteins can be grouped into based on their expression level changes. The grouped proteins that show similar expression patterns may be similar in function, as well.

**Figure 4. Differentially expressed proteins can be clustered by expression pattern.** Protein identification and function are shown for these differentially expressed proteins to highlight potential pathways involved in wound healing. Each of these proteins can be further studied to examine mechanism of their activity.



PCA analysis of differential protein expression based on bacterial culture or microbial detection array results. Additional proteomic comparisons were made involving samples that contained bacteria as compared to those that were free of bacterial contamination. When comparing bacteria-negative to bacteria-positive samples using culture as a discriminator and the LLNL array detection platform (LLMDA), we found 74 and 95 differentially expressed protein spots, respectively. These proteins were also examined for clustering and proteins were identified for functional classification.

Subsequently, both PCA and discrimination analysis of these samples were completed, showing evidence that the LLMDA determination of bacterial status provides a more distinct separation between samples than does the use of culture for determining host protein changes. Figure 5 shows the PCA analysis of these results, in which separating samples by culture status did not provide sufficient clustering of the proteomes, but when samples were clustered by presence of bacterial DNA as determined by LLMDA, a clear distinction of protein expression pattern is indicated by the PCA analysis.

## Figure 5. PCA analysis shows improved proteome clustering in LLMDA determination of bacterial presence (right) as compared to culturing (left).



Differential protein expression based on healed vs. dehisced wound results. Finally, we completed marker discrimination (Discriminate Analysis) for each of these three comparisons, which provides a minimal set of protein biomarkers that are sufficient to classify between two different sample types. Differentially expressed proteins that were used to discriminate these proteome samples are part of a marker selection panel of protein spots whose expression greatly affects the designation of the proteome. These results show 9, 10, and 6 protein spots that provide a minimal marker set for discriminating between these three comparison types. The accuracy of using these markers for discriminating host proteome samples between one sample to another was also determined (Table 3). For example, there are 9 markers selected that could discriminate between healed and dehisced wound effluent sample at 84% accuracy. The protein identifications for these 9 markers are shown in Table 4. Most importantly, these proteins could be used in a biomarker panel to determine which sample type a particular host proteome belongs to. In addition, these proteins could potentially be developed into a diagnostic protein panel or confirmatory assay that could help guide clinical treatment.

 Table 3. Discriminate Analysis for Three Distinct Proteome Sample Comparisons. This table shows the differential proteins, markers selected, and the accuracy of the markers for discriminate analysis of wound effluent proteomes.

Group	Comparison (left vs. right)		Differential Proteins	Markers selected	Accuracy (%)
1	Healed	Dehisced	52	9	83.83 ± 2.8
2	Culture Negative	Culture Positive	74	10	70.31 ± 16.3
3	LLNL Negative	LLNL Positive	95	6	76.67 ± 7.0

 Table 4. Identified Proteins For Discriminating Between Healed and Dehisced Proteome

 Samples. The listed proteins are the minimal set of proteins that indicate whether a proteome

 sample is a healed or dehisced sample based on their protein expression profile.

Heale	Healed vs Dehisced Discriminate Markers				
Spot No.	Gene Name	Protein Name			
95	PCH17	Protocadherin 17			
99	STK36	Serine/threonine protein kinase 3			
168	PTPRJ	Receptor type tyrosine protein phosphotase precursor			
195	CP	Ceruloplasmin			
198	CP	Ceruloplasmin			
341	C3	Complement C3			
343	C3	Complement C3			
375	XPNPEP1	Xaa-Pro aminopeptidase 1			
872	SERPINA3	Alpha-1- antichymotrypsin			

## Aim 3: Data analysis and clinical correlations (LLNL, UC Davis, and Naval Medical Research center)

Once Aims 1 and 2 are completed, LLNL will construct statistical models to predict clinical outcomes given (i) identified microbial flora and (ii) host response biomarkers. Standard multivariate regression methods will be used to predict categorical responses (wound closure vs. acute infection vs. chronic infection), and a Cox proportional hazard model will be applied to predict quantitative measures such as time to closure. LLNL and UC Davis have statisticians with

the appropriate bioinformatics and clinical trials experience, respectively, for statistical analysis and computational modeling of the wound profiling data that will be generated in this project.

## KEY RESEARCH ACCOMPLISHMENTS

## *Aim 1:*

- Further optimized protocols for extraction of nucleic acid from wound tissue.
- 131 total tissue and effluent samples were provided to LLNL by NMRC. All samples were extracted and hybridized to the version 5 LLMDA at LLNL.
- Established detection of microorganisms in 50% of tissue samples, including 38% of samples identified as culture-negative by standard microbiological techniques
- Achieved species-level identification for most organisms detected in wound samples.
- Performed pilot next-generation sequencing run on six wound samples and processed data using a novel metagenomics analysis platform.
- Determined sample type most likely to yield high quality pathogen sequence data in future sequencing runs.

## *Aim 2:*

- Determined ideal sample quantity and storage medium prior to analysis via 2D-DIGE.
- Optimized sample preparation methods and run parameters for 2D-DIGE.
- Determined that a large quantity of protein spots are obtained following analysis of preliminary burn wound samples.
- Identified several protein spots in preliminary samples whose presence was differentially observed between different sample groups, supporting the feasibility of this method for the discovery of possible biomarker candidates.
- Identified 122 protein spots with greater than 1.2 fold change in healed vs. dehisced or culture negative vs. culture positive wound effluent and p-value < 0.05.</li>
- Found 52, 74, and 95 putative protein biomarkers among three comparisons (healed v. dehisced, culture positive vs. culture negative, and LLMDA positive v. LLMDA negative), respectively
- Used proteomic bioinformatics tools including hierarchical clustering and determinant analysis to refine putative biomarker panels providing 70-80% accuracy and 6-10 proteins for each of these comparisons.
- PCA analysis of proteome samples show that LLMDA provides a clearer distinction between proteomes than culture status, suggesting that correlation of LLMDA detection to host response may be beneficial for future diagnostic and other clinical implications.

## **REPORTABLE OUTCOMES**

### Invited oral presentations:

Be NA, Chromy BA, Brown TS, Eldridge A, Gardner SN, McLoughlin KS, Luciw PA, Elster EA, Jaing C. Profiling of combat wounds through microbial and host biomarker detection. In: Gordon Research Seminar: Chemical and Biological Terrorism Defense; Ventura, CA; 2013 Mar 9-10.

#### Poster presentations at professional meetings:

Be NA, Brown TS, Chromy BA, Gardner SN, McLoughlin KS, Elster EA, Jaing C. Detection of microbial colonization in combat wounds. In: Military Health System Research Symposium; Fort Lauderdale, FL; 2012 Aug 13-16; Abstract 4, Infection Control and Treatment.

Be NA, Gardner S, McLoughlin K, Thissen JB, Slezak T, Jaing C. A comprehensive microbial detection array applied to biodefense and public safety. In: 5<sup>th</sup> National Bio-Threat Conference; Denver, Colorado; 2012 March 27-29.

#### Manuscripts in preparation:

Chromy BA, et al. Proteomic Sample Preparation for Analysis of Host Responses to Blast Wounds.

Be NA, et al. Molecular profiling of combat wound infection through microbial detection microarray and next-generation sequencing.

#### CONCLUSION

Our studies, employing the advanced LLMDA, next-generation sequencing, and 2D-DIGE proteomic technologies, have identified a broad range of wound-relevant pathogens and host biomarkers in tissue and effluent samples from wound biopsies. In particular, detection of microorganisms in samples previously believed to be culture-negative is highly relevant toward the purpose of this project, to identify wound pathogen profiles which cannot be effectively obtained through standard microbiological techniques. It is likely that a large proportion of wounds contain unculturable organisms, particularly those species involved in biofilm formation or which exhibit drug resistance. Our proteomics analysis yielded a defined set of potential biomarkers that are indicative of the host response and predictive of wound resolution and healing. In combination with our derived microbial information, these profiles will provide highly valuable information toward novel wound characterization and clinical outcome classification.

Continuing work will address a number of project points. We plan to sequence an additional 12 samples, focusing on effluent collected during wound debridements, as these sample types yielded the most practically useful sequence data, and are amenable to straightforward collection in the field. The whole genome sequence data will be analyzed for bacterial, viral, and fungal detection. Additionally, proteomic data will be compiled and host biomarkers identified. Statistical models will be constructed to identify the most informative microbial and host biomarkers and assays for detection of these factors will be designed.

In both the military and clinical fields, treatment of wound infections still relies heavily on conventional microbiology, which is not powered to reliably assess the full spectrum of factors involved in patient recovery. Our technical resources allow us to assess an abundantly comprehensive range of infectious organisms and host proteins, constructing a truly complete wound profile. This information, applied to clinical practice, will allow for acquisition of a much clearer picture of the complex host-pathogen interactions vital to the wound healing process. Such information is crucial to effective case management for service members and other patients undergoing wound treatment.

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## APPENDIX A.

# Microorganisms detected by LLMDA in each of 131 wound tissue and effluent samples collected during debridement procedures.

## NG = no growth UNK = unknown culture status \*Organism detected by LLMDA at lower stringency threshold (0.95)

Sample	Туре	Wound outcome	NMRC cultured organism	LLMDA detected (array version 5)
BM081WAL	Tissue	Healed	Pseudomonas stutzeri	Pseudomonas sp.*
				Mycobacterium abscessus*
				Salmonella enterica*
				Klebiella pneumoniae*
				Enterobacter cloacae plasmid pCHE-A*
				HPV 71*
BM081WCL	Tissue	Healed	Citrobacter freundii	Acinetobacter sp. SUN plasmid pRAY
CG531WA	Tissue	Healed	NG	Acinetobacter sp. Plasmid pRAY
DE041WA	Tissue	Dehisced	Acinetobacter baumannii	Acinetobacter sp.*
				Acinetobacter plasmid pRAY
				Acinetobacter baumannii plasmid pACICU2*
				Acinetobacter baumannii plasmid pABIR
DE041WCL	Tissue	Dehisced	Acinetobacter baumannii	Acinetobacter sp. 6014059
				Acinetobacter sp. SUN plasmid pRAY
				Acinetobacter baumannii ACICU plasmid pACICU2
DEGADWC	Tingung	Debiesed	A size stalla star have savii	Acinetobacter baumannii plasmid pABIR
DE042WC	lissue	Denisced	Acinetobacter baumannii	Acinetobacter baumannii piasmid pABIR
				Acinetobacter sp. SON plasmid pRAY
				Converbacter baumannii ACICU plasmid pACICU2
	Tissue	Debissed	A singto bastor baumannii	A single haster on *
DE045WAL	lissue	Demsceu	Achielobacter baumannin	Acinetobacter plasmid pPAV
				Acinetobacter baumannii plasmid pACICU2*
				Acinetobacter baumannii plasmid pACICO2
				Klobsiella proumoniae plasmid*
DI 111W/AI	Tissue	Healed	NG	None detected
DI 111WF	Tissue	Healed	Acinetobacter baumannii	None detected
DLIIIWI	nssue	nearea	Enterococcus faecium	
DM231WB	Tissue	Healed	NG	None detected
EB471WA	Tissue	Dehisced	Acinetobacter baumannii	Acinetobacter SUN plasmid pRAY
EB471WC	Tissue	Dehisced	UNK	Acinetobacter sp. SUN plasmid pRAY
ET662WB	Tissue	Dehisced	NG	None detected
GJ131WAL	Tissue	Healed	Escherichia coli	Bacteroides fragilis NCTC 9343*
				HPV 57*
GJ131WC	Tissue	Healed	NG	None detected
HP561WA	Tissue	Healed	NG	None detected
HP561WB	Tissue	Healed	NG	Ralstonia solanacearum*
				HHV 6A
IS711WA	Tissue	Dehisced	NG	None detected
IS/11WB	lissue	Dehisced	Stenotrophomonas maltophilia	None detected
IS712WA	lissue	Denisced	NG	Enterobacter cloacae plasmid pECU1
				Staphylococcus lugdunensis
IC713\A/D	Ticcuo	Debissed	NG	Acinetehacter on Diacmid nPAV
13712000	TISSUE	Demsceu	NO	Staphylococcus aurous
				Staphylococcus enidermidis
				Staphylococcus lugdunensis
IC271\//A	Tissue	Healed	Enterococcus faecium	Klehsiella nneumoniae nlasmid*
	10500	. icuicu		Escherichia coli KO11 plasmid *
				Enterobacter asburiae*
				HPV 57*
JC271WB	Tissue	Healed	NG	None detected

JZ 22XVA     Tissue     Healed     Enterococcus faccium     Appergillus injert <sup>1</sup> JZ 22XVA     Tissue     Healed     NG     None detected       JZ 22XVA     Tissue     Dehicocd     Enterococcus faccium     None detected       JZ 22XVA     Tissue     Dehicocd     Enterococcus faccium     None detected       JZ 22XVA     Tissue     Dehicocd     Enterococcus faccium     None detected       JZ 22XVA     Tissue     Dehicocd     Acinetobacter sp.     None detected       JZ 22XVA     Tissue     Dehicocd     Acinetobacter sp.     None detected       JZ 22XVA     Tissue     Dehicocd     Acinetobacter sp.     None detected       JZ 22XVA     Tissue     Healed     Acinetobacter baumanni//acincaceticus       JZ 22XVA     Tissue     Healed     Acinetobacter baumanni/acincaceticus       JZ 22XVA     Tissue     Healed     NG     Acinetobacter baumanni/ACIC17978 plasmid pRAY       JZ 22XVA     Tissue     Healed     Acinetobacter baumanni/ACIC17978 plasmid pRAY       JZ 22XVA     Tissue     Healed     Acinetobacter baumanni/ACIC17978 plasmid pAA       JZ 22XVA     Tissue     Healed     Acinetobacter baumanni/ACIC17978 plasmid pAA       JZ 21WC     Tissue     Healed     Acinetobacter baumanni/ACIC17978 plasmid pAA	JP222WA         Tissue         Healed         Stretcococus facuum         Aperglis sige**           JP222WA         Tissue         Healed         NG         None detected           JP22WA         Tissue         Debiced         NG         None detected           JP22WA         Tissue         Debiced         None detected         None detected           JP23WA         Tissue         Debiced         Activators facuum         None detected           JP33WA         Tissue         Debiced         Activators facuum         None detected           JP33WA         Tissue         Debiced         Activators facuum         Activators facuum           JP32WA         Tissue         Debiced         Activators facuum         Activators facuum           JP23WA         Tissue         Healed         Activators facuum         Activators facuum           JP23WA         Tissue         Healed         No         Activators facuum         Activators facuum           JP23WA         Tissue         Healed         No         Activators facuum         Activators facuum           JP23WA         Tissue         Healed         No         Activators facuum         Activators facuum           JP32WA         Tissue         Healed         No <th>JCZ/ZWA</th> <th>Tissue</th> <th>Healed</th> <th>Enterococcus faecium</th> <th>Salmonella enterica*</th>	JCZ/ZWA	Tissue	Healed	Enterococcus faecium	Salmonella enterica*
JC227204     Tissue     Healed     Enterococcus faccium     Acoretlaius rejet*       JC63104     Tissue     Definicad     Enterococcus faccium     None detected       JC63104     Tissue     Definicad     Enterococcus faccium     None detected       JC351WA     Tissue     Definicad     Enterococcus faccium     None detected       JC351WA     Tissue     Definicad     Enterococcus faccium     None detected       JC352WA     Tissue     Definicad     Enterococcus faccium     None detected       JC322WA     Tissue     Definicad     Anterobacter sp.     None detected       JC222WB     Tissue     Definicad     Anterobacter sp.     None detected       JC221WA     Tissue     Healed     Anterobacter sp.     None detected       JC221WA     Tissue     Healed     Anterobacter sp.     None detected       JC221WA     Tissue     Healed     Anterobacter sp.     None detected       JC221WC     Tissue     Healed     Anterobacter baumanni     Mycobacter sp. SUN plasmid pRAY       Anterobacter baumanni     Anterobacter baumanni     Mycobacter sp. SUN plasmid pAPA       Anterobacter baumanni     Anterobacter baumanni     Mycobacter sp. SUN plasmid pAPA       Anterobacter baumanni     Anterobacter baumanni     Mycobacter sp.	JC222WA     Tissue     Healed     Inferococcus tackum     Apprention Right       JC22WA     Tissue     Dehiced     NG     None detected       JD631WA     Tissue     Dehiced     NG     None detected       JC32WA     Tissue     Dehiced     None detected       JC33WA     Tissue     Dehiced     Actinetobacter sp.     Actinetobacter sp.       JC33WA     Tissue     Dehiced     Actinetobacter sp.     Bacillus crease       JC33WA     Tissue     Dehiced     Actinetobacter sp.     None detected       JR31WA     Tissue     Dehiced     Actinetobacter sp.     None detected       JR22WA     Tissue     Healed     Actinetobacter sp.     None detected       JR23WA     Tissue     Healed     No     Actinetobacter sp. SUN plasmid pRAY       JR24WA     Tissue     Healed     No     Actinetobacter sp. SUN plasmid pRAY       JR34WA     Tissue     Healed     No     Actinetobacter sp. SUN plasmid pRAY       JR34WA     Tissue     Healed     No     Actinetobacter sp. SUN plasmid pRAY       JR34WA     Tissue     Healed     No     Actinetobacter sp. SUN plasmid pRAY       JR34WA     Tissue     Dehiced     Actinetobacter sp. SUN plasmid pRAY       JR34WA     Tissue     De					HPV71*
JC272V8     Tissue     Healed     NG     None detected       JD681VA     Tissue     Dehicod     Enterocecus facium     None detected       JD681VA     Tissue     Dehicod     Enterocecus facium     None detected       JD681VA     Tissue     Dehicod     Bacillus cereus     Bacillus cereus       JG351WA     Tissue     Dehicod     Bacillus cereus     Bacillus cereus       JR281WA     Tissue     Dehicod     Acinetobacter sp.     Acinetobacter sp.       JR281WA     Tissue     Healed     Acinetobacter sp.     Acinetobacter sp.       JR281WA     Tissue     Healed     Acinetobacter sp.     Standard sp.       JR281WA     Tissue     Healed     Acinetobacter sp.     Standard sp.       JR281WA     Tissue     Healed     Acinetobacter baumanni /calcaceticus     Complex       JR281WA     Tissue     Healed     Acinetobacter baumanni     Acinetobacter sp. SUN plasmid pRV       JR341WB     Tissue     Dehisced     Acinetobacter baumanni     Acinetobacter sp. SUN plasmid pRV       JR342WA     Tissue     Dehisced     Acinetobacter sp. SUN plasmid pRV       JR342WA     Tissue     Dehisced     Acinetobacter sp. SUN plasmid pRV       JR342WA     Tissue     Dehisced     Acinetobacter sp. SUN plasmid pRV <td>JC272W8     Tissue     Healed     NG     None defected       JD681WA     Tissue     Dehisced     Finteroccus factum     None defected       JD681WA     Tissue     Dehisced     Finteroccus factum     None defected       JD681WA     Tissue     Dehisced     Acherobacter sp.     Mainteroperus       JG351WA     Tissue     Dehisced     Acherobacter sp.     None defected       JJD81WA     Tissue     Dehisced     Acherobacter sp.     None defected       JJD31WA     Tissue     Dehisced     Acherobacter sp.     Acherobacter sp.       JJD31WA     Tissue     Healed     Acherobacter sp.     Acherobacter sp.       JJJD31WA     Tissue     Healed     Acherobacter sp.     Acherobacter sp.       JJJD31WA     Tissue     Healed     Acherobacter baumanni//sciacaeticus       JJJD31WA     Tissue     Healed     Acherobacter baumanni/ Acherobacter baumanni/ Acherobacter sp. SUN plasmid pR4Y       JJJJD31WA     Tissue     Healed     Acherobacter baumanni/ Acherobacter sp.     Stimonid pR4Y       JJJJJD31WA     Tissue     Healed     Acherobacter baumanni/ Acherobacter sp.     Stimonid pR4Y       JJJJJJD31WA     Tissue     Healed     Acherobacter baumanni/ Acherobacter sp.     Stimonid pR4Y       JJJJJJD31WA     Tissue     De</td> <td>JC272WA</td> <td>Tissue</td> <td>Healed</td> <td>Enterococcus faecium</td> <td>Aspergillus niger*</td>	JC272W8     Tissue     Healed     NG     None defected       JD681WA     Tissue     Dehisced     Finteroccus factum     None defected       JD681WA     Tissue     Dehisced     Finteroccus factum     None defected       JD681WA     Tissue     Dehisced     Acherobacter sp.     Mainteroperus       JG351WA     Tissue     Dehisced     Acherobacter sp.     None defected       JJD81WA     Tissue     Dehisced     Acherobacter sp.     None defected       JJD31WA     Tissue     Dehisced     Acherobacter sp.     Acherobacter sp.       JJD31WA     Tissue     Healed     Acherobacter sp.     Acherobacter sp.       JJJD31WA     Tissue     Healed     Acherobacter sp.     Acherobacter sp.       JJJD31WA     Tissue     Healed     Acherobacter baumanni//sciacaeticus       JJJD31WA     Tissue     Healed     Acherobacter baumanni/ Acherobacter baumanni/ Acherobacter sp. SUN plasmid pR4Y       JJJJD31WA     Tissue     Healed     Acherobacter baumanni/ Acherobacter sp.     Stimonid pR4Y       JJJJJD31WA     Tissue     Healed     Acherobacter baumanni/ Acherobacter sp.     Stimonid pR4Y       JJJJJJD31WA     Tissue     Healed     Acherobacter baumanni/ Acherobacter sp.     Stimonid pR4Y       JJJJJJD31WA     Tissue     De	JC272WA	Tissue	Healed	Enterococcus faecium	Aspergillus niger*
JDB21WA         Tissue         Dehised         NG         None detected           JG551WA         Tissue         Dehised         Enterococcus facium         None detected           JG351WA         Tissue         Dehised         Enterococcus facium         None detected           JG351WA         Tissue         Dehised         Bacilius cereus         Bacilius cereus           JG352WA         Tissue         Dehised         Acinetobacter sp.         None detected           JR231WA         Tissue         Dehised         Acinetobacter sp.         None detected           JR231WA         Tissue         Healed         Acinetobacter baumanni //cloaceticus         Complex           JR341WA         Tissue         Healed         Acinetobacter baumanni // Acinetobacter baumanni /	JobBINA         Tissue         Dehiced         NG         None detected           JGSS1WA         Tissue         Dehiced         Acinetobacter sp.         Acinetobacter sp.         Stanuari parviowing B19           JGSS1WA         Tissue         Dehiced         Bacillas cereus         Bacillas cereus         Bacillas cereus           JGSS1WA         Tissue         Dehiced         Bacillas cereus         Bacillas cereus         Bacillas cereus           JGSS1WA         Tissue         Dehiced         Acinetobacter sp.         Acinetobacter sp.         Acinetobacter sp.           JR281WA         Tissue         Healed         Acinetobacter sp.         None detected         Acinetobacter sp.           JR281WA         Tissue         Healed         Acinetobacter sp.         None detected         None detected           JR281WA         Tissue         Healed         Acinetobacter baumannii Acinetobacter sp. SUN plasmid pRV         Acinetobacter sp. SUN plasmid pRV           JR341WB         Tissue         Healed         Acinetobacter baumannii Acinetobacter sp. SUN plasmid pRV           JR341WB         Tissue         Dehisced         Acinetobacter baumannii ACIC 1978 plasmid pAIN           JR341WB         Tissue         Dehisced         Acinetobacter baumannii ACIC 1978 plasmid AAN           JR341WB <td>JC272WB</td> <td>Tissue</td> <td>Healed</td> <td>NG</td> <td>None detected</td>	JC272WB	Tissue	Healed	NG	None detected
JDBA1W9         Tissue         Deficed         Enterooccus facuum         None detected           JG351WA         Tissue         Deficed         Bacillus cereus         Bacillus cereus           JG352WA         Tissue         Defised         Acinetobacter sp.         None detected           JR351WA         Tissue         Defised         Acinetobacter sp.         None detected           JR281WA         Tissue         Healed         Acinetobacter sp.         None detected           JR281WA         Tissue         Healed         Acinetobacter sp.         None detected           JR281WA         Tissue         Healed         Acinetobacter sp.         Summanity faitoaceticus           JR281WA         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRAY           JR281WA         Tissue         Healed         Acinetobacter baumannit         Acinetobacter sp. SUN plasmid pRAY           JR341WA         Tissue         Healed         Acinetobacter sp. SUN plasmid pRAY         Acinetobacter sp. SUN plasmid pRAY           JR341WA         Tissue         Dehisced         Acinetobacter baumanni         Acinetobacter sp. SUN plasmid pRAY           JR341WA         Tissue         Dehisced         Acinetobacter sp. SUN plasmid pRAY           JR341WA	JbBa109         Itsue         Dehicad         Enterooccus facuum         None detected           JGSS1WA         Tissue         Dehicad         Enterooccus facuum         None detected           JGSS1WA         Tissue         Dehicad         Bacillus cereus         Bacillus cereus           JGSS1WA         Tissue         Dehicad         Acinetobacter sp.         None detected           JR281WA         Tissue         Healed         Acinetobacter sp.         Participation           JR281WA         Tissue         Healed         Acinetobacter sp.         Summani/Jackaceticus           JR281WA         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRV           JR281WA         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRV           JR281WA         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRV           JR341WA         Tissue         Healed         Acinetobacter baumanii         Acinetobacter sp. SUN plasmid pRV           JR341WA         Tissue         Dehiced         Acinetobacter baumanii         Acinetobacter sp. SUN plasmid pRV           JR341WA         Tissue         Dehiced         NG         Acinetobacter sp. SUN plasmid pRV           JR342WA         Tissue	JD681WA	Tissue	Dehisced	NG	None detected
JR351WA     Tissue     Dehisced     Acinetobacter sp.     Acinetobacter sp. SUN pairs dip RAY       JG351WA     Tissue     Dehisced     Bacillus cereus     Bacillus cereus       JG351WA     Tissue     Dehisced     Acinetobacter sp.     None detected       JG351WA     Tissue     Dehisced     Acinetobacter sp.     None detected       JR281WA     Tissue     Healed     Acinetobacter baumanni/Acicoaceticus     None detected       JR281WA     Tissue     Healed     Acinetobacter baumanni/Acicoaceticus     None detected       JR31WB     Tissue     Healed     Acinetobacter baumanni/Acicoaceticus     None detected       JR31WB     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pRAY       JR31WB     Tissue     Dehisced     Acinetobacter baumanni/Acicoaceticus     Sunnoplin barteria*       JR31WB     Tissue     Dehisced     NG     Acinetobacter baumanni/Acico plasmid pRAY       JR32WH     Tissue     Dehisced     NG     Acinetobacter baumanni/Acico plasmid pRAY       JR32WW </td <td>JR351WA     Tissue     Dehiced     Admetobacter sp.     Admetobacter sp.       J351WA     Tissue     Dehiced     Bacillus cereus     Bacillus cereus       J351WA     Tissue     Dehiced     Admetobacter sp.     None detected       J352WA     Tissue     Dehiced     Admetobacter sp.     None detected       JR231WA     Tissue     Healed     Admetobacter baumanni //admotabacter sp. SJN plasmid pRY       JR231WA     Tissue     Healed     Admetobacter baumanni //admotabacter sp. SJN plasmid pRY       JR341WA     Tissue     Healed     Admetobacter baumanni     Mycobacter sp.       JR341WA     Tissue     Healed     NG     Admetobacter sp.       JR341WB     Tissue     Dehisced     Admetobacter baumanni     Admetobacter sp.       JR341WB     Tissue     Dehisced     NG     Admetobacter sp.       JR341WB     Tissue     Dehisced     NG     Admetobacter sp.       JR341WA</td> <td>JD681WB</td> <td>Tissue</td> <td>Dehisced</td> <td>Enterococcus faecium</td> <td>None detected</td>	JR351WA     Tissue     Dehiced     Admetobacter sp.     Admetobacter sp.       J351WA     Tissue     Dehiced     Bacillus cereus     Bacillus cereus       J351WA     Tissue     Dehiced     Admetobacter sp.     None detected       J352WA     Tissue     Dehiced     Admetobacter sp.     None detected       JR231WA     Tissue     Healed     Admetobacter baumanni //admotabacter sp. SJN plasmid pRY       JR231WA     Tissue     Healed     Admetobacter baumanni //admotabacter sp. SJN plasmid pRY       JR341WA     Tissue     Healed     Admetobacter baumanni     Mycobacter sp.       JR341WA     Tissue     Healed     NG     Admetobacter sp.       JR341WB     Tissue     Dehisced     Admetobacter baumanni     Admetobacter sp.       JR341WB     Tissue     Dehisced     NG     Admetobacter sp.       JR341WB     Tissue     Dehisced     NG     Admetobacter sp.       JR341WA	JD681WB	Tissue	Dehisced	Enterococcus faecium	None detected
Jastuw         Tissue         Dehisced         Bacillus cereus Acinetobacter sp.         Human parvorius B19           J352WA         Tissue         Dehisced         Acinetobacter sp.         None detected           JR281WA         Tissue         Healed         Acinetobacter baumanii/calcoaceticus complex         None detected           JR281WA         Tissue         Healed         Acinetobacter baumanii/calcoaceticus complex         None detected           JR281WA         Tissue         Healed         Acinetobacter baumanii/calcoaceticus complex         None detected           JR281WA         Tissue         Healed         Acinetobacter baumannii         Mycobacterium abscessus* Huma parvorius B19           JR341WA         Tissue         Healed         Acinetobacter baumannii         Mycobacterium abscessus* Huma parvorius B19           JR341WA         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pR4Y Acinetobacter baumanni plasmid pR4W Acinetobacter sp. SUN plasmid pR4W Acinetobacter baumanni AEOC	Jackbox         Human parvoring 819           JG351WA         Tissue         Dehisced         Bacillus cereus         Bacillus cereus           JG352WA         Tissue         Dehisced         Acinetobacter sp.         None detected           JR231WA         Tissue         Healed         Acinetobacter sp.         None detected           JR341WA         Tissue         Healed         Acinetobacter sp.         None detected           JR341WA         Tissue         Dehisced         Acinetobacter baumannii Acinetobacter sp.         Sumonanni Acinetobacter sp.           JR342WA         Tissue         Dehisced         NG         Acinetobacter sp.         Sumonanni Acinetobacter sp.           JR342WA         Tissue         Dehisced         NG         Acinetobacter sp.	JG351WA	Tissue	Dehisced	Acinetobacter sp.	Acinetobacter sp. SUN plasmid pRAY
JGSS1WA     Tissue     Dehiced     Bacillus cereus Acinetobacter sp.     Bacillus cereus Acinetobacter sp.       JR281WA     Tissue     Healed     Acinetobacter sp.     None detected       JR281WA     Tissue     Healed     Acinetobacter baumannit/calcoaceticus complex     None detected       JR281WC     Tissue     Healed     NG     Acinetobacter sp. SUM plasmid pRAY Acinetobacter baumanni       JR341WB     Tissue     Healed     NG     Acinetobacter sp. SUM plasmid pRAY Acinetobacter baumanni       JR342WA     Tissue     Dehiced     Acinetobacter baumanni     Acinetobacter baumanni       JR342WA     Tissue     Dehiced     Acinetobacter baumanni     Acinetobacter baumanni       JR342WA     Tissue     Dehiced     NG     Acinetobacter baumanni     Acinetobacter baumanni       JR342WA     Tissue     Dehiced     NG     Acinetobacter baumanni     Acinetobacter baumanni       JR342WA     Tissue     Dehiced     NG     Acinetobacter baumanni     Acinetobacter Baumanni       JR342WA     Tissue     Dehiced	JGS1WA     Tissue     Dehisced     Bacillus cereus Acinetobacter sp.     Bacillus cereus Acinetobacter sp.       JR281WA     Tissue     Dehisced     Acinetobacter sp.     None detected       JR281WA     Tissue     Healed     Acinetobacter baumanni/(alcoaceticus complex     Acinetobacter baumanni/(alcoaceticus complex     None detected       JR281WA     Tissue     Healed     Acinetobacter baumanni/(alcoaceticus complex     None detected       JR281WA     Tissue     Healed     Acinetobacter baumanni     None detected       JR31WA     Tissue     Healed     Acinetobacter baumanni     Mycobacter baumanni       JR31WA     Tissue     Healed     NG     Acinetobacter baumanni       JR31WB     Tissue     Healed     NG     Acinetobacter ap. SUM plasmid pNA Acinetobacter ap. SUM plasmid pAR Acinetobacter baumanni       JR31WB     Tissue     Dehisced     NG     Acinetobacter baumanni plasmid pAR Acinetobacter baumanni ACICU plasmid pAR Acinetobacter baumanni Plasmid pAR Acinetobacter baumanni ACICU plasmid pAR Ac				Bacillus cereus	Human parvovirus B19
JACINE Dehisted         Acinetobacter sp. Alinetobacter sp. Alinetobacter sp.         None detected           JR281WA         Tissue         Healed         Acinetobacter sp. Bumanni/calcaceticus complex         Acinetobacter sp. Plasmid pRAY           JR281WA         Tissue         Healed         Acinetobacter baumanni/calcaceticus complex         None detected           JR281WA         Tissue         Healed         Acinetobacter baumanni/calcaceticus complex         None detected           JR281WA         Tissue         Healed         Acinetobacter baumanni         Mycobacterium abscessus* summani/calcaceticus           JR341WA         Tissue         Healed         Acinetobacter baumanni         Mycobacterium abscessus* summani/calcaceticus           JR341WB         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pABIR Human parvorives B19           JR341WA         Tissue         Dehisced         NG         Acinetobacter sp. SUN plasmid pABIR Human parvorives B19           JR342WA         Tissue         Dehisced         NG         Acinetobacter baumanni ACIC J1378 plasmid pABIR Human parvorives B19           JR342WA         Tissue         Dehisced         NG         None detected           JR591WA         Tissue         Dehisced         NG         None detected	Jassue         Dehiced         Acinetobacter sp. Alinetobacter sp. Alinetobacter sp.         None detected           JR281WA         Tissue         Healed         Acinetobacter sp. Burmanni/calcaceticus complex         Acinetobacter sp. Plasmid pRAY           JR281WA         Tissue         Healed         Acinetobacter Burmanni/calcaceticus complex         None detected           JR281WA         Tissue         Healed         Acinetobacter Burmanni/calcaceticus complex         None detected           JR281WA         Tissue         Healed         Acinetobacter burmanni         Mycobacterium abscessus* Huma parvorives B19           JR341WA         Tissue         Healed         Acinetobacter burmanni         Mycobacterium abscessus* Huma parvorives B19           JR341WA         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. Burmid pRAY Acinetobacter burmanni plasmid pABI Huma parvorives B19           JR341WB         Tissue         Dehiced         NG         Acinetobacter burmanni plasmid pABIR Huma parvorives B19           JR342WH         Tissue         Dehiced         NG         Acinetobacter burmanni ARCO plasmid pABIR Huma parvorives B19           JR342WH         Tissue         Dehiced         NG         None detected           JR591WQ         Tissue         Dehiced         NG         None detected </td <td>JG351WA</td> <td>Tissue</td> <td>Dehisced</td> <td>Bacillus cereus</td> <td>Bacillus cereus</td>	JG351WA	Tissue	Dehisced	Bacillus cereus	Bacillus cereus
JG352WA     Tissue     Dehisced     Acinetobacter sp. Alloicoccus oddis     None detected       JR281WA     Tissue     Healed     Acinetobacter baumannit/calcoaceticus complex     Acinetobacter sp. Plasmid pRAY       JR281WA     Tissue     Healed     Acinetobacter baumannit/calcoaceticus complex     None detected       JR281WA     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumanni       JR341WA     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumanni       JR342WA     Tissue     Dehisced     Acinetobacter baumanni     Acinetobacter baumanni       JR342WA     Tissue     Dehisced     NG     Acinetobacter SUN plAY       JR591WB     Tissue     Dehisced     NG     Acinetobacter	JGSS2WA     Tissue     Dehisced     Acinetobacter sp. Allocaccus ordids     None detected       JR281WA     Tissue     Healed     Acinetobacter baumannit/calcaceticus complex     Acinetobacter sp. Flasmid pRAY       JR281WC     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii       JR341WA     Tissue     Healed     NG       JR341WA     Tissue     Healed     NG       JR341WA     Tissue     Dehisced     Acinetobacter baumannii       JR342WA     Tissue     Dehisced     Acinetobacter baumannii       JR342WA     Tissue     Dehisced     Acinetobacter baumannii       JR342WA     Tissue     Dehisced     NG       JF691WA     Tissue     Dehisced     NG       NG     None detected     Stophyllococcus capitis       K5702WA     Tissue     Dehisced     NG				Acinetobacter sp.	
JR281WA     Tissue     Healed     Acinetobacter baumanni/calcoaceticus complex     Acinetobacter baumanni/calcoaceticus complex     None detected       JR281WC     Tissue     Healed     NG     Acinetobacter baumanni/calcoaceticus complex     None detected       JR281WC     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pRAY Acinetobacter parvovirus B19       JR281WA     Tissue     Healed     Acinetobacter baumanni     Mycobacter inabscessus* HPV 71 * Salmonella enterica*       JR241WB     Tissue     Healed     NG     Acinetobacter sp. Plasmid pRAY Acinetobacter parvovirus B19       JR341WB     Tissue     Healed     NG     Acinetobacter sp. Plasmid pRAY Acinetobacter parvovirus B19       JR341WB     Tissue     Dehisced     NG     Acinetobacter parvovirus B19       JR342WA     Tissue     Dehisced     NG     Acinetobacter baumannii Acinetobacter bauman	JR281WA     Tissue     Healed     Acinetobacter baumannit/calcoaceticus complex     Acinetobacter baumannit/calcoaceticus complex     None detected       JR281WA     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pRV Acinetobacter baumanni ATC 1378 plasmid pAB1 Human parvortus B19       JR281WA     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pRV Acinetobacter sp. SUN plasmid pRV Acinetobacter baumanni       JR341WA     Tissue     Healed     Acinetobacter baumannit     Mycobacterium abscessus* HPV 71*       JR341WA     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pRV Acinetobacter baumannit ATC 1378 plasmid pRV Acinetobacter baumannit ARDS7 plasmid pRV Acinetobacter baumannit ARDS7 plasmid pRV Acinetobacter baumannit ARDS7 plasmid pABR       JR342WA     Tissue     Dehisced     Acinetobacter baumannit ARDS7 plasmid pABR       JR342WH     Tissue     Dehisced     NG     Acinetobacter baumannit ARDS7 plasmid pABR       JR342WH     Tissue     Dehisced     NG     Acinetobacter baumannit ARDS7 plasmid pABR       JR501WA     Tissue     Dehisced     NG     Acinetobacter Baumannit ARDS7 plasmid pABR       JR502WA     Tissue     Dehisced     NG     Acinetobacter SUN plasmid ARDS7 plasmid pABR       JR502WA     Tissue     Dehisced     NG     Acinetobacter SUN plasmid pABR       JR502WA     Tissue     Dehisced     N	JG352WA	Tissue	Dehisced	Acinetobacter sp. Alloicoccus otidis	None detected
baumanni//clcocaceticus complex         None detected           JR281W/L         Tissue         Healed         Acinetobacter baumanni/clacocaceticus complex         None detected           JR281W/L         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pAY Acinetobacter baumannii ATCC 17578 plasmid pAB1 Human parvoritus B19           JR281W/L         Tissue         Healed         Acinetobacter baumannii         MycObacter ium abscessus* HPV 71 * Salmonella enterica* Borrelia afselii*           JR341W/B         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pAY Acinetobacter sp. SUN plasmid pAY Acinetobacter sp. SUN plasmid pAY Acinetobacter baumannii ACICU plasmid           JR341W/B         Tissue         Dehisced         Acinetobacter baumannii ACICU plasmid           JR342W/H         Tissue         Dehisced         NG         Acinetobacter baumannii AZICU plasmid pASUR Human parvortus B19           JR342W/H         Tissue         Dehisced         NG         Acinetobacter baumannii ACICU plasmid Acinetobacter baumannii AZICU plasmid ABQ           JR591W/A         Tissue         Dehisced         NG         Acinetobacter Sumannii ACICU plasmid Acinetobacter baumannii AZICU plasmid ABQ           JR591W/A         Tissue         Dehisced         NG         Acinetobacter Sumannii ACICU plasmid Acinetobacter Sumannii ACICU plasmid Acinetobacter Sumannii ATE plasmid pABAY Acinetobacter Sumannii ATE pl	baumannil/clobacterius complex         None detected           JR281WA         Tissue         Healed         Acinetobacter baumannil/clobacterius complex         None detected           JR281WC         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRAY Acinetobacter Sp. SUN plasmid pAGODST Acinetobacter Sp. SUN plasmid pAGODST Acinetobacter Sumannii ACCU plasmid pAGODST Acinetobacter Sumannii ACCU plasmid pAGAPT Acinetobacter Sumannii Sisse           KS702WA	JR281WA	Tissue	Healed	Acinetobacter	Acinetobacter sp. Plasmid pRAY
IR281WA         Tissue         Healed         Anne hostcre baumanni/(catcoaceticus complex         None detected           JR281WC         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRAY Acinetobacter paramoli ATCC 17978 plasmid pAB1 Human parvovirus B19           JR341WA         Tissue         Healed         Acinetobacter baumannii         Mycobacter ium abscessus* HPV 71 = Salmonella enterica*           JR341WB         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. Non plasmid pRAY Acinetobacter baumannii           JR341WB         Tissue         Dehisced         NG         Acinetobacter sp. SISII plasmid pAB1 Human parvovirus B19           JR342WA         Tissue         Dehisced         NG         Acinetobacter baumannii         Acinetobacter baumannii Acinetobacte	JR281WA         Tissue         Healed         Acinetobacter buumanni/catcoaceticus complex         None detected           JR281WC         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii Acic U plasmid ABAR Human parvorins B19           JR342WA         Tissue         Dehisced         NG         Acinetobacter baumannii Acic U plasmid ABAY Acinetobacter baumannii ATCC 17978 plasmid ABAYE Acinetobacter baumannii ATCC 17978 plasmid ABAYE Acinetobacter baumannii ATCC 17978 plasmid ABAYE Acinetobacter baumannii ATC 17978 plasmid ABAYE Acinetobacter baumannii ATC 17978 plasmid ABAYE Acinetobacter baumannii ATC 17978 plasmid pABAYE Acinetobacter Sun PRAY           JF691WA         Tissue         Dehisced         NG         None detected           IV691WA         Tissue         Dehisced         NG         None detected           IV691WA         Tissue         Dehisced         NG         None detected           IV691WA         Tissue         Dehisced         NG				baumannii/calcoaceticus	
JR281WA     Tissue     Healed     Admetobacter baumanni/catoaceticus complex     None detected       JR281WC     Tissue     Healed     NG     Acinetobacter baumannii ATCC 17978 plasmid pA81 Human parvoirus B19       JR241WA     Tissue     Healed     Acinetobacter baumannii     Mycobacterium abscessus* HV7 71 * Salmonella enterica* Borrelia afaeli*       JR241WB     Tissue     Healed     NG     Acinetobacter paumannii Acinetobacter paumannii plasmid pA81 HV7 71 * Salmonella enterica* Borrelia afaeli*       JR241WB     Tissue     Dehisced     Acinetobacter baumannii Acinetobacter baumannii AGCC plasmid PA84 Acinetobacter baumannii AGCU plasmid PA84 Acinetobacter baumannii AGCU plasmid pA84 Acinetobacter baumannii AGCU plasmid pA60057 Acinetobacter baumannii AGCU plasmid pA68057 Acinetobacter baumannii ATCC 17978 plasmid pA68057 Acinetobacter baumannii ATCC 17978 plasmid AB22       JT691WA     Tissue     Dehisced     NG     None detected NG       None detected     NG     None detected     None detected       LM572WA     Tissue     Dehisced     NG     None detected       LM572WB     Tissue     Dehisced     NG     None detected       LM572WA     Tissue     Dehisced     NG     None detected       LM572WB     Tissue     Dehisced     NG     None detected       LM572WA     Tissue     Dehisced     NG     None detected       LM572WA	JR281WA         Tissue         Healed         Acinetobacter baumanni/cacaceticus complex         None detected           JR281WC         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii ATCC 127378 plasmid pA81 Human parvorirus B19           JR341WA         Tissue         Healed         Acinetobacter baumannii         MycObacterium obscessus* HPV 71*           JR341WB         Tissue         Healed         Acinetobacter baumannii         MycObacter sp. SUN plasmid pA81 Acinetobacter sp. SUN plasmid pA81 Human parvorirus B19           JR341WB         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pA81R Human parvorirus B19           JR342WA         Tissue         Dehisced         Acinetobacter baumannii         Acinetobacter sp. SUN plasmid pA80R Human parvorirus B19           JR342WA         Tissue         Dehisced         NG         Acinetobacter sp. SUN plasmid pA800 Acinetobacter baumannii AEOUS7 plasmid pA81R Human parvorirus B19           JR591WG         Tissue         Dehisced         NG         None detected           JR501WA         Tissue         Dehisced         NG         None detected           KS702WA         Tissue         Dehisced         NG				complex	
JR281WC Tissue Healed NG Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii ATCC 17978 plasmid pAB1 Huma parvoirus B19 JR341WA Tissue Healed Acinetobacter baumannii Mycobacterium abscessus* HV 71 a Salmonella enterica* Borrelia afzeli* JR342WA Tissue Dehisced Acinetobacter baumannii ACCC 1978 plasmid pRAY Acinetobacter baumannii AciCC 1978 plasmid pABAY Acinetobacter baumannii AciCC 1978 plasmid AB2 JT691WK Tissue Dehisced NG None detected S702WA Tissue Dehisced NG None detected LM671WA Tissue Dehisced NG None detected NG None detected NG None detected NG Acinetobacter baumannii plasmid pABIR MV651WA Tissue Healed NG Acinetobacter baumannii plasmid pABIR MV651WA Tissue Healed NG Acinetobacter baumannii plasmid pABIR NW651WA Tissue Healed NG None detected NG Non	baumanni//calcaceticus complex         Acinetobacter sp. SUN plasmid pRY Acinetobacter baumannii ATCC 17978 plasmid pAB1 Human parvovirus B19           JR341WA         Tissue         Healed         Acinetobacter baumannii         Mycobacter ium abscessus* Hyr 71 = Salmonella enterica* Borrelia ateli1*           JR341WB         Tissue         Healed         NG         Acinetobacter journamii Acinetobacter sp. Plasmid pRY Acinetobacter baumannii Acinetobacter baumannii ACIC I plasmid Acinetobacter baumannii ACIC I plasmid AABAYE Acinetobacter baumannii ATC C 17978 plasmid pABIR Mycobacter Baumannii ATC C 17978 plasmid pABI Acinetobacter Baumannii Acinetobacter Baumannii A	JR281WA	Tissue	Healed	Acinetobacter	None detected
JR281WC         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii ATCC 17978 plasmid pAB1 Human parvorivins B19           JR341WA         Tissue         Healed         Acinetobacter baumannii         Mycobacterium abscessus* HPV 71 * Salmonella enterica* Borrelia afzelli*           JR341WB         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. Plasmid pRAY Acinetobacter baumannii plasmid pABIR Human parvoriving B19           JR242WA         Tissue         Dehisced         Acinetobacter baumannii ACCO Typismid pAG0057 Acinetobacter baumannii ACCO Typismid pAG0057 Acinetobacter baumannii ACCO Typismid pAG0057 Acinetobacter baumannii ACCO Typismid pAG0057 JR342WH           JR342WH         Tissue         Dehisced         NG         Acinetobacter baumannii ACCO Typismid pAG0057 Acinetobacter baumannii ACCO Typismid pAG0057 JR342WH           JR591WA         Tissue         Dehisced         NG         None detected           JT691WA         Tissue         Dehisced         NG         None detected           KS702WA	JR281WC         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pAY           JR281WA         Tissue         Healed         Acinetobacter baumannii         Human parvoivins 819           JR241WA         Tissue         Healed         Acinetobacter baumannii         Mycobacterium abscessus*           JR341WB         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pAY           JR341WB         Tissue         Healed         NG         Acinetobacter sp. SUN plasmid pAY           JR342WA         Tissue         Dehisced         Acinetobacter baumannii         Acinetobacter baumannii ACCC 1978 plasmid pAY           JR342WH         Tissue         Dehisced         NG         Acinetobacter baumannii ACCC 1978 plasmid pA20057           JR342WH         Tissue         Dehisced         NG         Acinetobacter baumannii ACCC 1978 plasmid A60057           JR591WA         Tissue         Dehisced         NG         None detected           JF691WA         Tissue         Dehisced         NG         None detected           JF691WA         Tissue         Dehisced         NG         None detected           KS702WA         Tissue         Dehisced         NG         None detected           KS702WB         Tissue				baumannii/calcoaceticus	
JR281WC     Tissue     Healed     NG     Acinetobacter baumanni Accord the second	JR281WC     Tissue     Healed     NG     Acinetobacter baumannii ACC 17978 plasmid pAB1 Huma parvoivins B19       JR341WA     Tissue     Healed     Acinetobacter baumannii MCC 17978 plasmid pAB1 Huma parvoivins B19       JR341WB     Tissue     Healed     NG     Acinetobacter baumannii Basmid pABR Acinetobacter baumannii Basmid pABR Huma parvoivins B19       JR341WB     Tissue     Dehisced     Acinetobacter baumannii Basmid pABR Huma parvoivins B19       JR342WA     Tissue     Dehisced     Acinetobacter baumannii ABOS7 plasmid pACOS7 Acinetobacter baumannii ABOS7 plasmid pABR Human parvoivins B19       JR342WH     Tissue     Dehisced     NG     Acinetobacter sumannii ACC 1978 plasmid pABR Human parvoivins B19       JR342WH     Tissue     Dehisced     NG     Acinetobacter baumannii ACC 1978 plasmid pABAY Acinetobacter baumannii Basmid pABAIR MW651WA       MS201WJ     Tissue     Healed     NG				complex	
Index Hole     Index     Acinetobacter isolamannii ATCC 17978 plasmid pAB1       JR341WA     Tissue     Healed     Acinetobacter baumannii     Mycobacterium abscessus*       JR341WB     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pAB1       JR341WB     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pAPY       JR341WB     Tissue     Dehisced     Acinetobacter baumannii ACC 17978 plasmid pAB1R       JR342WA     Tissue     Dehisced     Acinetobacter baumannii ACD 2 plasmid pAPY       JR342WH     Tissue     Dehisced     NG     Acinetobacter baumannii AEO 2 plasmid pAG0057       Acinetobacter baumannii AEO 2 plasmid pAB2     Tresiue     Dehisced     NG     None detected       JT691WA     Tissue     Dehisced     NG     None detected     None detected       JT691WC     Tissue     Dehisced     NG     None detected     None detected       KS702WA     Tissue     Dehisced     NG     None detected     Mycobacterium abscessus*       KS702WA     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     <	Index       No       Acinetobacter baumannii       Acinetobacter baumannii       Acinetobacter baumannii         JR341WA       Tissue       Healed       Acinetobacter baumannii       Mycobacterium abscessus*         JR341WB       Tissue       Healed       NG       Acinetobacter sp. Vis My lasmid pARY         JR341WB       Tissue       Healed       NG       Acinetobacter sp. Vis My lasmid pARY         JR342WA       Tissue       Dehisced       Acinetobacter baumanni       Acinetobacter sp. Vis My lasmid pARY         JR342WH       Tissue       Dehisced       NG       Acinetobacter baumannii ABOC5 plasmid pAGDS7         JR42WH       Tissue       Dehisced       NG       Acinetobacter baumannii ABOC5 plasmid pABAY         JT691WA       Tissue       Dehisced       NG       None detected         JT691WA       Tissue       Dehisced       NG       None detected         S702WA       Tissue       Dehisced       NG       None detected         S702WA       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       De	IR281WC	Tissue	Healed	NG	Acinetobacter sp. SUN plasmid pRAY
JR341WA     Tissue     Healed     Acinetobacter baumannii     Mycobacterum abscessus* HVV 71* Salmonella arterita* Bornella afzelii*       JR341WB     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pAN Acinetobacter sp. SUN plasmid pAN Acinetobacter sp. SuN plasmid pAN Acinetobacter baumannii ACIO plasmid pAN Acinetobacter baumannii ACIO plasmid pAN Acinetobacter baumannii ACIO plasmid pAA Acinetobacter baumannii ACIO plasmid pAB Acinetobacter baumannii ACIO plasmid pAB Acinetobacter baumannii ACIO plasmid pAB Acinetobacter baumannii ACIO plasmid pAB Acinetobacter baumannii ACIO 1978 plasmid pAB Acinetobacter baumannii plasmid pAB Aci	JR341WA         Tissue         Healed         Acinetobacter baumannii         Mycobacterium abscessus* HV 71 * Salmonella enterica* Borrelia afzeli*           JR341WB         Tissue         Healed         NG         Acinetobacter baumannii Jasmid pAV Acinetobacter baumannii Jasmid pABIR Human parvovirus B19           JR342WA         Tissue         Dehisced         Acinetobacter baumannii Jasmid pABIR Human parvovirus B19           JR342WA         Tissue         Dehisced         Acinetobacter baumannii Acto 1998 plasmid pAO057 Acinetobacter baumannii ACC 1998 plasmid pAA057 Acinetobacter baumannii ACC 1998 plasmid pABAY Acinetobacter baumannii Acinetobacter baumannii Basmid pABAIR MW651WA           MS201WJ         Tissue         Dehisced         NG         None detected           MW51WA         Tissue         Dehisced         NG         Acinetobacter baumannii Acinetobacter baumannii ABOS7 plasmid pABAY Acinetobacter baumannii plasmid pABAIR           MW520WJ         Tissue         <	5112011110	113500	neuleu	115	Acinetobacter baumannii ATCC 17978 nlasmid nAB1
JR341WA     Tissue     Healed     Acinetobacter baumannii     Mixobacter rum abscessus* HPV 71*       JR341WB     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii plasmid pABIR       JR342WA     Tissue     Dehisced     Acinetobacter baumannii     Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii AGDS plasmid pAG0057 Acinetobacter baumannii AGDS plasmid pAG0057 Acinetobacter baumannii ATCC 1978 plasmid AGAU       JT691WA     Tissue     Dehisced     NG     None detected       S702WA     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       KM501WA     Tissue     Dehisced     NG     None detected <td>JR341WA       Tissue       Healed       Acinetobacter baumannii       Mycobacterrum abscessus* HYV 71*         JR341WB       Tissue       Healed       NG       Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pABR         JR341WB       Tissue       Dehisced       Acinetobacter baumannii       Acinetobacter sp. SUN plasmid pARY Acinetobacter sp. Plasmid pARY Acinetobacter sp. Plasmid pARY         JR342WH       Tissue       Dehisced       NG       Acinetobacter baumannii ACCU plasmid         JR342WH       Tissue       Dehisced       NG       Acinetobacter baumannii ACCU plasmid pAG0057 Acinetobacter baumannii ATC 1978 plasmid pABAY         JT691WA       Tissue       Dehisced       NG       None detected         S702WA       Tissue       Dehisced       NG       None detected         KS702WB       Tissue       Dehisced       NG       None detected         KS702WB       Tissue       Dehisced       NG       None detected         KS702WB       Tissue       Dehisced       NG       None detected         KM501UVA       Tissue       Dehisced       NG       None detected         KM501UVA       Tissue       Healed       Acinetobacter baum</td> <td></td> <td></td> <td></td> <td></td> <td>Human narvovirus B19</td>	JR341WA       Tissue       Healed       Acinetobacter baumannii       Mycobacterrum abscessus* HYV 71*         JR341WB       Tissue       Healed       NG       Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pABR         JR341WB       Tissue       Dehisced       Acinetobacter baumannii       Acinetobacter sp. SUN plasmid pARY Acinetobacter sp. Plasmid pARY Acinetobacter sp. Plasmid pARY         JR342WH       Tissue       Dehisced       NG       Acinetobacter baumannii ACCU plasmid         JR342WH       Tissue       Dehisced       NG       Acinetobacter baumannii ACCU plasmid pAG0057 Acinetobacter baumannii ATC 1978 plasmid pABAY         JT691WA       Tissue       Dehisced       NG       None detected         S702WA       Tissue       Dehisced       NG       None detected         KS702WB       Tissue       Dehisced       NG       None detected         KS702WB       Tissue       Dehisced       NG       None detected         KS702WB       Tissue       Dehisced       NG       None detected         KM501UVA       Tissue       Dehisced       NG       None detected         KM501UVA       Tissue       Healed       Acinetobacter baum					Human narvovirus B19
Instruction     Inst	Instrument     Instruct     Actinetobacter businismin     Inty cost and activity of the solution and activity of the solution a	IR3/11///	Tissue	Haalad	Acinetobacter baumannii	Mycobacterium abscessus*
JR341WB     Tissue     Healed     NG     Acinetobacter sp. SUR plasmid pARY Acinetobacter sp. SUR plasmid pABIR Human parvovirus B19       JR342WA     Tissue     Dehisced     Acinetobacter baumannii     Acinetobacter baumannii ACCU plasmid pACINE       JR342WH     Tissue     Dehisced     Acinetobacter baumannii ACCU plasmid pACOS7 Acinetobacter baumannii ACCU plasmid pAGO057 Acinetobacter SUN pRAY       JT691WA     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     Acinetobacter baumannii plasmid pABIR       MW651WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     Acinetobacter baumannii plasmid pABIR       MW651WA     Tissue     Healed     NG	JR341WB     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pABIR Human parvovirus B19       JR342WA     Tissue     Dehisced     Acinetobacter baumanii     Acinetobacter sp. Plasmid pABIR Human parvovirus B19       JR342WH     Tissue     Dehisced     NG     Acinetobacter baumanii ABOS plasmid pAGOS7 Acinetobacter baumanii ABOS plasmid pAGOMS7 Acinetobacter baumanii ABOS plasmid pAGOMS7 Acinetobacter baumanii AEOS plasmid pAGOMS7 Acinetobacter baumanii ATCI 17978 plasmid pAGOMS7 Acinetobacter baumanii ATCI 17978 plasmid pAGOMS7 Acinetobacter baumanii ATCI 17978 plasmid AGOMS7 Acinetobacter baumanii ATCI 17978 plasmid AGOMS7 Acinetobacter baumanii ATCI 17978 plasmid AB2       JT691WC     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       MS201WJ     Tissue     Dehisced     NG     None detected       MW651WA     Tissue     Dehisced     NG     None detected       MW651WA     Tissue     Healed     Acinetobacter baumannii Basnid pABIR       MW651WA     Tissue     Healed     NG     None detected       MW651WA     Tissue	JI/34100A	TISSUE	Treateu	Achiecobacter baumannin	
JR341WB     Tissue     Healed     NG     Acinetobacter sp. SUR plasmid pABY Acinetobacter sp. Plasmid pABR Human provvirus B19       JR342WA     Tissue     Dehisced     Acinetobacter baumannii Jacobacter sp. Plasmid pABR Acinetobacter sp. Plasmid pABY Acinetobacter baumannii AE0057 plasmid pAG0057 Acinetobacter baumannii AE0057 plasmid pAG0057       JR542WH     Tissue     Dehisced     NG     Acinetobacter baumannii AE0057 plasmid pAG0057       JT691WA     Tissue     Dehisced     NG     Acinetobacter baumannii AE0057 plasmid pAG0057       JT691WA     Tissue     Dehisced     Staphyllococcus capitis     Acinetobacter SUN pRAY       JT691WC     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       MS201WJ     Tissue     Dehisced     NG     Acinetobacter baumannii plasmid pABIR       MV651WA     Tissue     Healed     NG     Acinetobacter baumannii plasmid pABUS7       Acinetobacter baumannii     HC17378     Tissue     Healed <t< td=""><td>JR341WB     Tissue     Healed     NG     Borrelia afzelit*       JR341WB     Tissue     Dehisced     Acinetobacter sp. SUX plasmid pRAY Acinetobacter sp. SUX plasmid pABR Human parovirus B19       JR342WA     Tissue     Dehisced     Acinetobacter baumannii     Acinetobacter sp. SUX plasmid pABR Acinetobacter baumannii ACICU plasmid Acinetobacter baumannii ACICU plasmid pAG0057 Acinetobacter baumannii ACICU plasmid pAG0457       JR542WH     Tissue     Dehisced     NG     Acinetobacter baumannii ACICU plasmid pAG0457       JT691WA     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       MV651WA     Tissue     Healed     NG     None detected       MV651WA     Tissue     Healed     NG</td><td></td><td></td><td></td><td></td><td>Salmanalla antorica*</td></t<>	JR341WB     Tissue     Healed     NG     Borrelia afzelit*       JR341WB     Tissue     Dehisced     Acinetobacter sp. SUX plasmid pRAY Acinetobacter sp. SUX plasmid pABR Human parovirus B19       JR342WA     Tissue     Dehisced     Acinetobacter baumannii     Acinetobacter sp. SUX plasmid pABR Acinetobacter baumannii ACICU plasmid Acinetobacter baumannii ACICU plasmid pAG0057 Acinetobacter baumannii ACICU plasmid pAG0457       JR542WH     Tissue     Dehisced     NG     Acinetobacter baumannii ACICU plasmid pAG0457       JT691WA     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       MV651WA     Tissue     Healed     NG     None detected       MV651WA     Tissue     Healed     NG					Salmanalla antorica*
JR341WB     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pABR Human parvovirus B19       JR342WA     Tissue     Dehisced     Acinetobacter baumanii     Acinetobacter sp. Plasmid pRAY Acinetobacter baumanii ACICU plasmid       JR342WH     Tissue     Dehisced     NG     Acinetobacter baumanii ACICU plasmid pABAYE Acinetobacter baumanii ACICU plasmid       JR42WH     Tissue     Dehisced     NG     NG     Noetecter baumanii ACICU plasmid pABAYE Acinetobacter baumannii ACICU plasmid pABQ057 plasmid pABAYE Acinetobacter baumannii ATCC 17978 plasmid AB2       JT691WA     Tissue     Dehisced     NG     Noe detected       JT691WB     Tissue     Dehisced     NG     Noe detected       JT691WC     Tissue     Dehisced     NG     Noe detected       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       MS201WA     Tissue     Dehisced     NG     None detected       MS201WA     Tissue     Healed     NG     Acinetobacter baumannii plasmid pABIR       MW651WA     Tissue     Healed     NG     Acinetobacter baumannii plasmid pABIR       MW651WA     Tissue     Healed     NG     Acinetobacter baumannii plasmid pABUR       MW651WA     Tissue<	JR341WB     Tissue     Healed     NG     Acinetobacter sp. SUN plasmid pABIR Human parvoirviss B19       JR342WA     Tissue     Dehisced     Acinetobacter baumanni Actor plasmid pABIR       JR342WH     Tissue     Dehisced     Acinetobacter baumanni Actor plasmid pAA       JR342WH     Tissue     Dehisced     NG     Acinetobacter baumanni ACtor Japamid pAG0057 Acinetobacter baumanni AKE plasmid pAG0057 Acinetobacter baumanni AKE plasmid pAG0057 JAcinetobacter baumanni AKE plasmid pABAY       JT691WA     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       S702WA     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Healed     Acinetobacter sp.     Borrelia arclil*       MS201WJ     Tissue     Healed     NG     None detected					Salinonella enterica Porrolia afaolii*
IRS4.TWB     Itsue     Healed     NG     Admetobacter 59, 300 plashild pAAN Admetobacter baumannii plasmid pABR Human parvoVirus B19       JR342WA     Tissue     Dehisced     Admetobacter baumannii     Admetobacter baumannii ACICU plasmid Acinetobacter baumannii ACICU plasmid Acinetobacter baumannii ACICU plasmid pABNY Admetobacter baumannii ACICU plasmid pABAYE Admetobacter baumannii ACICU plasmid ABAYE Admetobacter baumannii ACIC 17978 plasmid pABAYE Admetobacter baumannii ACIC 17978 plasmid ABAYE Admetobacter baumannii ACIC 17978 plasmid ABA       JT691WA     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     Natimatica solanacearum* Mycobacterium abscessus* Borrelia afzelii*       KS702WB     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       MS201WA     Tissue     Dehisced     NG     None detected       MS201WA     Tissue     Healed     NG     None detected       MV651WA     Tissue     Healed     NG     None detected       PH221WA     Tissue     Healed     NG	JRS4.WB       Tissue       Healed       NG       Achietobacter baumannii plasmid pABR Human parvovirus B19         JR342WA       Tissue       Dehisced       Acinetobacter baumannii ACLU plasmid Acinetobacter baumannii ACLU plasmid pAG0057 Acinetobacter baumannii ACLU plasmid pAG057 Acinetobacter baumannii ATCC 17978 plasmid pAG057 Acinetobacter baumannii plasmid pAG057 Acinetobacter baumannii ATCC 17978 plasmid AB2         JT691WA       Tissue       Dehisced       NG       None detected         JT691WA       Tissue       Dehisced       NG       None detected         JT691WA       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       Healed       NG <td>ID2/11/A/D</td> <td>Ticcuo</td> <td>Healed</td> <td>NG</td> <td>Acipatabastar sp. SUN plasmid pPAV</td>	ID2/11/A/D	Ticcuo	Healed	NG	Acipatabastar sp. SUN plasmid pPAV
JR342WATissueDehiscedAcinetobacter baumaniiAcinetobacter baumanii ACICU plasmidJR342WHTissueDehiscedNGAcinetobacter baumannii ACICU plasmid pAG0057 Acinetobacter baumannii ACICU plasmid pAABAYE Acinetobacter baumannii ATC 17978 plasmid pAABAYE Mycobacterium abscessus* Borrelia afceli*K5702WATissueDehiscedNGNone detectedK5702WATissueDehiscedNGNone detectedLM671WATissueDehiscedNGNone detectedLM671WATissueDehiscedNGNone detectedLM671WATissueDehiscedNGNone detectedLM671WATissueDehiscedNGNone detectedLM671WATissueHealedNGAcinetobacter sp.MS201WJTissueHealedNGNone detectedMW651WBTissueHealedNGNone detectedMW651WBTissueHealedNGNone detectedPH221WATissueHealedAcinetobacter baumanniiAcinetobacter baumannii plasmid pABUA01 Acinetobacter baumannii plasmid pABUA01 Acine	JR342WA     Tissue     Dehisced     Acinetobacter baumanii     Acinetobacter sp. Plasmid pRAY       JR342WH     Tissue     Dehisced     NG     Acinetobacter baumanii ACC plasmid pAG0057       JR542WH     Tissue     Dehisced     NG     Acinetobacter baumanii ACC plasmid pAG0057       JT691WA     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     Ralstonia solanacearum*       Mycobacter idual asolancearum*     Mycobacter idual asolancearum*     Mycobacter idual asolancearum*       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WB     Tissue     Healed     NG     None detected       MS201WJ     Tissue     Healed     NG     None detected       MV651WA     Tissue     Healed     NG     None detec	JN34100	lissue	Healeu	NG	Acinetobacter sp. SON plasmid pAAF
JR342WA       Tissue       Dehisced       Acinetobacter baumanii       Acinetobacter sp. Plasmid pAQ0015         JR342WH       Tissue       Dehisced       NG       Acinetobacter baumannii ACICU plasmid         JR942WH       Tissue       Dehisced       NG       Acinetobacter baumannii AP0057 plasmid pAQ0057         Acinetobacter baumannii AYE plasmid pABAYE       Acinetobacter baumannii AYE plasmid pABAYE       Acinetobacter baumannii AYE plasmid pABAYE         JT691WA       Tissue       Dehisced       NG       None detected         JT691WC       Tissue       Dehisced       NG       Ralstonia solanacearum*         Mycobacterium abscessus*       Borrelia afcelii*       Mycobacterium abscessus*       Borrelia afcelii*         KS702WA       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       Dehisced       UNK       None detected         MS201WJ       Tissue       Healed       NG       None detected         MV651WA       Tissue       Healed       NG       None detected         MV651WA       Tissue       Healed       NG       None detected         PH221WA       Tissue       Healed       NG<	JR342WATissueDehiscedAcinetobacter baumaniiAcinetobacter baumanii ACICU plasmidJR342WHTissueDehiscedNGAcinetobacter baumannii AOS7 plasmid pAG0057JR342WHTissueDehiscedNGAcinetobacter baumannii AOS7 plasmid pAG0057JT691WATissueDehiscedNGNone detectedJT691WBTissueDehiscedNGAcinetobacter baumannii AVE plasmid pAG0057JT691WCTissueDehiscedNGAcinetobacter SUN pRAYJT691WCTissueDehiscedNGRalstonia solanacearum*Mycobacterium abscessus* Borrelia alzelii*Mone detectedMCK5702WATissueDehiscedNGNone detectedLM671WBTissueDehiscedNGNone detectedLM671WBTissueDehiscedNGNone detectedLM671WBTissueDehiscedNGNone detectedLM671WBTissueDehiscedNGNone detectedLM671WBTissueHealedNGAcinetobacter baumannii Basmid pAB057Actinetobacter sp.Borrelia afzelii*MS201WJTissueHealedMV651WBTissueHealedNGNone detectedMW651WBTissueHealedNGNone detectedMW651WBTissueHealedNGNone detectedMW651WBTissueHealedNGNone detectedMW651WBTissueHealedAcinetobacter baumanniiAcinetobacter baumannii AP057 plasmid pAB0057 <td></td> <td></td> <td></td> <td></td> <td></td>					
JR42WA     Tissue     Defised     Achectobacter baumannii     Achectobacter baumannii ACICU plasmid       JR342WH     Tissue     Dehisced     NG     Achectobacter baumannii AE0057 plasmid pAG0057       Achectobacter baumannii AFCC 17978 plasmid AB2     JT691WA     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected     Achectobacter baumannii AFC 17978 plasmid AB2       JT691WC     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       KS702WB     Tissue     Dehisced     NG     None detected       LM67TWA     Tissue     Dehisced     NG     None detected       LM67TWA     Tissue     Dehisced     NG     None detected       MS201WA     Tissue     Healed     Acinetobacter baumannii     HPV 57*       MS201WA     Tissue     Healed     NG     None detected       MW651WA     Tissue     Healed     NG     None detected       MW651WA     Tissue     Healed     NG     None detected       MW651WA     Tissue     Healed     NG     None detected       MW651WB	Insue     Defised     Achiectodacter baumanni ACCU plasmid pAG0057       JR342WH     Tissue     Dehisced     NG     Acinetobacter baumanni ACCU plasmid pAG0057       JT691WA     Tissue     Dehisced     NG     None detected       JT691WA     Tissue     Dehisced     NG     None detected       JT691WA     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       JT691WA     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       MS201WJ     Tissue     Healed     Acinetobacter baumannii ACT 1978 plasmid pABIR       MW651WA     Tissue     Healed     NG     None detected       MV651WA     Tissue     Healed     NG<	1024214/4	<b>T</b> :	Debiased	A sin stale stan barras ii	A sin stoke stor on Diservice a DAV
JR342WH       Tissue       Dehisced       NG       Acinetobacter baumannii ACOS plasmid pAGO057         JR542WH       Tissue       Dehisced       NG       Acinetobacter baumannii ACOS plasmid pAABAYE         JT691WA       Tissue       Dehisced       NG       None detected         JT691WC       Tissue       Dehisced       Staphyllococcus capitis       Acinetobacter SUN pRAY         JT691WC       Tissue       Dehisced       NG       Ralstonia solanacearum*         Mycobacterium abscessus*       Borrelia afzelii*       Mycobacterium abscessus*         KS702WA       Tissue       Dehisced       NG       None detected         LM671WB       Tissue       Dehisced       NG       None detected         LM671WB       Tissue       Dehisced       NG       None detected         LM671WB       Tissue       Dehisced       UNK       None detected         LM671WB       Tissue       Healed       Acinetobacter sp.       Borrelia afzelii*         MS201WJ       Tissue       Healed       NG       None detected         LM651WB       Tissue       Healed       NG       None detected         MW651WA       Tissue       Healed       NG       None detected         MW651WA	R342WH       Tissue       Dehisced       NG       Acinetobacter baumannii AUCU plasmid pAG0057         Acinetobacter baumannii AVE plasmid pAABAYE       Acinetobacter baumannii AVE plasmid pAABAYE         JT691WA       Tissue       Dehisced       NG       None detected         JT691WC       Tissue       Dehisced       Staphyllococcus capitis       Acinetobacter SUN pRAY         JT691WC       Tissue       Dehisced       NG       Raistonia solanacearum*         Mycobacterium abscessus*       Borrelia afzelii*       Staphyllococcus capitis       Acinetobacter SUN pRAY         KS702WA       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       Dehisced       UNK       None detected         MS201WJ       Tissue       Healed       Acinetobacter baumannii       HPV 57*         MS201WJ       Tissue       Healed       NG       None detected         MV651WA	JK34ZVVA	lissue	Denisceu	Acmetobacter baumann	Acinetobacter sp. Plasifilio pRAY
JR342WH     Tissue     Dehisted     NG     Achieobacter baumannii AYE plasmid pAd0057       JT691WA     Tissue     Dehisted     NG     None detected       JT691WA     Tissue     Dehisted     NG     None detected       JT691WC     Tissue     Dehisted     Staphyllococcus capitis     Acinetobacter Sumannii AYE plasmid pABAYE       JT691WC     Tissue     Dehisted     NG     None detected       JT691WC     Tissue     Dehisted     NG     Raktonia solanacearum*       Mycobacterium abscessus*     Borelia afzelli*     Borelia afzelli*       KS702WA     Tissue     Dehisted     NG     None detected       LM671WA     Tissue     Dehisted     NG     None detected       LM671WB     Tissue     Dehisted     NG     None detected       LM671WA     Tissue     Dehisted     NG     None detected       LM671WB     Tissue     Healed     Acinetobacter sp.     Borelia afzelli*       MS201WJ     Tissue     Healed     NG     None detected       LM671WA     Tissue     Healed     NG     Acinetobacter baumannii plasmid pABIR       MW651WA     Tissue     Healed     NG     None detected       PH221WA     Tissue     Healed     Acinetobacter baumannii AEO (3788) plasm	JR342WH     Fissue     Dehisced     NG     Achietobacter baumannii AB005 plasmid pA00057 Achietobacter baumannii ATCC 17978 plasmid AB2       JT691WA     Tissue     Dehisced     NG     None detected       JT691WC     Tissue     Dehisced     Staphyllococcus capitis     Achietobacter SUN pRAY       JT691WC     Tissue     Dehisced     NG     None detected       KS702WA     Tissue     Dehisced     NG     None detected       KS702WB     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WB     Tissue     Dehisced     NG     None detected       LM671WB     Tissue     Dehisced     NG     None detected       LM671WB     Tissue     Dehisced     NG     None detected       MS201WJ     Tissue     Healed     NG     None detected       MS201WJ     Tissue     Healed     NG     None detected       MW651WA     Tissue     Healed     Acinetobacter baumannii AB0057 plasmid pRAY <td>1024214/11</td> <td>Tinnun</td> <td>Debiesed</td> <td>NC</td> <td>Acinetobacter baumannii ACICO plasmid</td>	1024214/11	Tinnun	Debiesed	NC	Acinetobacter baumannii ACICO plasmid
Acinetobacter baumannii ATC 17978 plasmid AB2 JT691WA Tissue Dehisced NG None detected JT691WC Tissue Dehisced NG Ralstonia solanacerum* Mycobacter JUN pRAY S702WA Tissue Dehisced NG NG None detected K5702WA Tissue Dehisced NG None detected LM671WB Tissue Dehisced NG None detected MS201WA Tissue Dehisced NG None detected MS201WA Tissue Dehisced NG None detected LM671WB Tissue Dehisced NG None detected MS201WA Tissue Healed Acinetobacter baumannii HPV 57* Achromobacter sp. Borrelia afzelii* MS201WJ Tissue Healed NG Acinetobacter baumannii HPV 57* Achromobacter sp. Borrelia afzelii* MW651WB Tissue Healed NG Acinetobacter baumannii plasmid pABIR MW651WB Tissue Healed UNK None detected MW651WB Tissue Healed NG Acinetobacter baumannii plasmid pABIR MW651WB Tissue Healed NG Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii ACI 17978 plasmid pAB2 Acinetobacter baumannii ACI 17978 plasmid pAB4 RW011WCL Tissue Healed Acinetobacter baumannii (pan resistant) Escherichia coli plasmid pY13 Klebsiella pneumoniae plasmid pK9n114 Salmonella entertifidis plasmid pK6 Escherichia coli plasmid pK7 Acinetobacter baumannii pABIR Acinetobacter baumannii plasmid pK6 Escherichia coli plasmid pK6 Escherichia coli plasmid pK6 Acinetobacter baumannii plasmid pK6 Acinetobacter baumannii plasmid pK6 E	Achretobacter baumannii ATCC 17978 plasmid AB2 JT691WA Tissue Dehisced NG None detected JT691WC Tissue Dehisced Staphyllococcus capitis Acinetobacter SUN pRAY JT691WC Tissue Dehisced NG Ralstonia solanacearum* Mycobacterium abscessus* Borrelia afzelii* KS702WA Tissue Dehisced NG None detected LM671WA Tissue Healed NG Acinetobacter sp. Borrelia afzelii* MS201WJ Tissue Healed NG Acinetobacter baumannii HPV 57* Acinetobacter baumannii ATCC 17978 plasmid pABIR MW651WA Tissue Healed NG Acinetobacter baumannii ACC 17978 plasmid pABOS7 Acinetobacter baumannii ATCC 17978 plasmid pABAYE Acinetobacter baumannii ATCC 17978 plasmid pABAYE Acinetobacter baumannii ATCC 17978 plasmid pABAYE Acinetobacter baumannii ATCC 17978 plasmid pABAYE RH491WA Tissue Healed NG Acinetobacter baumannii ATCC 17978 plasmid pABAYOI Acinetobacter baumannii ATCC 17978 plasmid pABAYOI Acinetobacter baumannii ATCC 17978 plasmid pABAYE RH491WA Tissue Healed Acinetobacter baumannii (pan resistant) Kelobacter sp. SUN plasmid pABYAYI Klobsile pneumoniae plasmid pKp114 Escherichia coli Jasmid pABIR None detected RW011WCL Tissue Healed NG None detected RW011WCL Tissue Healed NG Acinetobacter baumannii ATCC 17978 plasmid pABYAYE Acinetobacter baumannii ATE 15477A plasmid pFTEC_6 Escherichia coli Jasmid pKp114 Salmonella enteritidis plasmid pK114 Salmonella enteritidis plasmid pK Acinetobacter baumannii plasmid pKBI Acinetobacter baumannii plasmid pKAY Acinetobacter baumannii plasmid pKAY Acinetobacter baumannii plasmid pKAY Acinetobacter paumannii plasmid pKAY Acinetobacter ps. SUN plasmid pKAY Acinetobacte	JR342WH	lissue	Denisced	NG	Acinetobacter baumannii AB0057 plasmid pAG0057
IT691WA     Tissue     Dehisced     NG     None detected       JT691WB     Tissue     Dehisced     Staphyllococcus capitis     Acinetobacter SUN pRAY       JT691WC     Tissue     Dehisced     NG     Ralstonia solanacearum*       Mycobacterium abscessus*     Borrelia afzelii*     Mycobacterium abscessus*       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WB     Tissue     Dehisced     NG     None detected       LM671WB     Tissue     Healed     Acinetobacter baumannii HPV 57*       Achronobacter sp.     Borrelia afzelii*       MS201WJ     Tissue     Healed     NG       MW651WA     Tissue     Healed     NG     None detected       PH221WA     Tissue     Healed     NG     None detected       PH221WA     Tissue     Healed     Acinetobacter baumannii plasmid pAB057 plasmid pAB057       RW011WA     Tissue     Healed     Acinetobacter baumannii ACC 17978 plasmid pAB2       Acinetobacter baumannii     Acinetobacter baumannii ACE 17978 plasmid pRAY   <	JT691WA       Tissue       Dehisced       NG       None detected         JT691WC       Tissue       Dehisced       Staphyllococcus capitis       Acinetobacter SUN pRAY         JT691WC       Tissue       Dehisced       NG       Ralstonia solanacearum*         Mycobacterium abscessus*       Borrelia afzelia*         KS702WB       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       Dehisced       UNK       None detected         MS201WJ       Tissue       Healed       Acinetobacter sp.       Borrelia afzelia*         MS201WJ       Tissue       Healed       NG       None detected         MW651WA       Tissue       Healed       NG       None detected         MW651WA       Tissue       Healed       NG       None detected         MW651WA       Tissue       Healed       Acinetobacter baumannii AB0057 plasmid pAB057         Acinetobacter baumannii       Acinetobacter baumannii plasmid pAB142       Acinetobact					Acinetobacter baumannil AYE plasmid p4ABAYE
J 1931WATissueDehiscedNGNone detectedJT691WCTissueDehiscedStaphyllococcus capitisAcinetobacter SUN pRAYJT691WCTissueDehiscedNGRalstonia solanacearum* Mycobacterium abscessus* Borrelia afzelii*KS702WATissueDehiscedNGNone detectedLM671WATissueDehiscedNGNone detectedLM671WBTissueDehiscedNGNone detectedLM671WBTissueDehiscedUNKNone detectedMS201WATissueDehiscedUNKNone detectedMS201WATissueHealedAcinetobacter sp.Borrelia afzelii*MS201WJTissueHealedNGAcinetobacter baumannii Achromobacter sp.MW651WATissueHealedNGNone detectedMW651WBTissueHealedNGNone detectedPH221WATissueHealedAcinetobacter baumanniiAcinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii ACC 17978 plasmid pAB2 Acinetobacter baumannii ACC 1978 plasmid pAB2 Acinetobacter baumannii APE plasmid pAB4RW011WATissueHealedAcinetobacter baumannii (pan resistant)Acinetobacter sp. SUN plasmid pAB7 Escherichia coli plasmid pK9114 Escherichia coli plasmid pK9114 Salmonella entertidis plasmid pK8 Acinetobacter baumannii plasmid pK9 Acinetobacter baumannii plasmid pK9 RH491WARW011WCLTissueHealedAcinetobacter baumannii (pan resistant)Escherichia coli plasmi	JT691WA       Tissue       Dehisced       NG       None detected         JT691WC       Tissue       Dehisced       Staphyllococcus capitis       Acinetobacter SUN pRAY         JT691WC       Tissue       Dehisced       NG       Ralstonia solanacearum*         Mycobacterium abscessus*       Borrelia afzelit*       NG       None detected         KS702WA       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       Dehisced       NG       None detected         MS201WA       Tissue       Healed       Acinetobacter sp.       Borrelia afzelit*         MV651WA       Tissue       Healed       NG       None detected         MW651WB       Tissue       Healed       Acine	TCOANNA	<b>T</b>	Delateral	NC	Acinetobacter baumannii ATCC 17978 plasmid AB2
JT691WB     Tissue     Dehisced     Staphyllococcus capitis     Acinetobacter SUR pRAY       JT691WC     Tissue     Dehisced     NG     Raitonia solanacearum*       KS702WA     Tissue     Dehisced     NG     None detected       KS702WB     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     UNK     None detected       LM671WB     Tissue     Dehisced     UNK     None detected       MS201WA     Tissue     Healed     Acinetobacter sp.     Borrelia afzelii*       MS201WJ     Tissue     Healed     NG     None detected       MW651WA     Tissue     Healed     NG     None detected       MW651WB     Tissue     Healed     NG     None detected       PH221WA     Tissue     Healed     Acinetobacter baumannii     Acinetobacter baumannii plasmid pABNO1 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii plasmid pABVA01 Acinetobacter sp. SUN plasmid pRAY       RW011WA     Tissue     Healed     NG     None detected       RW011WA     Tissue     Healed     Acinetobacter baumannii (pan resistant)     Acinetobacter sp. SUN plasmid pRAY <tr< td=""><td>JT691WB     Tissue     Dehisced     Staphyllococcus capitis     Acinetobacter SUN pRAY       JT691WC     Tissue     Dehisced     NG     Ralistonia solanacearum* Mycobacterium abscessus* Borrelia atzelii*       KS702WA     Tissue     Dehisced     NG     None detected       KS702WB     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WB     Tissue     Dehisced     UNK     None detected       LM671WB     Tissue     Dehisced     UNK     None detected       MS201WA     Tissue     Healed     Acinetobacter baumannii     HPV 57*       MS201WJ     Tissue     Healed     NG     None detected       MW651WA     Tissue     Healed     NG     None detected       MW651WB     Tissue     Healed     Acinetobacter baumannii     Acinetobacter baumannii AB0057 plasmid pAB0057       Acinetobacter     Tissue     Healed     Acinetobacter baumannii ACC 17978 plasmid pABVA01       Acinetobacter     Tissue     Healed     Acinetobacter baumannii APK plasmid pAAY       RW011WA     Tissue     Healed     Acinetobacter baumannii (pan resistant)     Scherichia coli plasmid pK114       RW011WCL     Tissue     Healed     Acinetobacter baumannii (pan resista</td><td>JT691WA</td><td>Tissue</td><td>Dehisced</td><td>NG</td><td>None detected</td></tr<>	JT691WB     Tissue     Dehisced     Staphyllococcus capitis     Acinetobacter SUN pRAY       JT691WC     Tissue     Dehisced     NG     Ralistonia solanacearum* Mycobacterium abscessus* Borrelia atzelii*       KS702WA     Tissue     Dehisced     NG     None detected       KS702WB     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WB     Tissue     Dehisced     UNK     None detected       LM671WB     Tissue     Dehisced     UNK     None detected       MS201WA     Tissue     Healed     Acinetobacter baumannii     HPV 57*       MS201WJ     Tissue     Healed     NG     None detected       MW651WA     Tissue     Healed     NG     None detected       MW651WB     Tissue     Healed     Acinetobacter baumannii     Acinetobacter baumannii AB0057 plasmid pAB0057       Acinetobacter     Tissue     Healed     Acinetobacter baumannii ACC 17978 plasmid pABVA01       Acinetobacter     Tissue     Healed     Acinetobacter baumannii APK plasmid pAAY       RW011WA     Tissue     Healed     Acinetobacter baumannii (pan resistant)     Scherichia coli plasmid pK114       RW011WCL     Tissue     Healed     Acinetobacter baumannii (pan resista	JT691WA	Tissue	Dehisced	NG	None detected
J1691WC     Tissue     Dehisced     NG     Ralstonia solanacearum* Mycobacterium abscessus* Borrelia afzelii*       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     UNK     None detected       LM671WB     Tissue     Dehisced     UNK     None detected       MS201WJ     Tissue     Healed     Achronobacter sp.     Borrelia afzelii*       MS201WJ     Tissue     Healed     NG     None detected       MW651WA     Tissue     Healed     NG     None detected       MW651WA     Tissue     Healed     UNK     None detected       MW651WB     Tissue     Healed     UNK     None detected       MW651WB     Tissue     Healed     Acinetobacter baumannii     Acinetobacter baumannii ATC 17978 plasmid pAB2A       Acinetobacter     Acinetobacter baumannii (pan resistant)     Acinetobacter sp. SUN plasmid pRAY       RW011WA     Tissue     Healed     Acinetobacter baumannii (pan resistant)     Acinetobacter sp. SUN plasmid pFAY       RW011WCL     Tissue     Healed     Acinetobacter baumannii (pan resistant)     Escherichia coli plasmi	J1991WC     Tissue     Dehisced     NG     Raistonia solanacearum* Mycobacterium abscessus* Borrelia afzelii*       KS702WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       MS201WA     Tissue     Healed     Acinetobacter sp.     Borrelia afzelii*       MS201WJ     Tissue     Healed     NG     Acinetobacter sp.       MW651WB     Tissue     Healed     NG     None detected       PH221WA     Tissue     Healed     UNK     None detected       PH221WA     Tissue     Healed     UNK     None detected       PH21WA     Tissue     Healed     Acinetobacter baumannii     Acinetobacter baumannii plasmid pAB057 plasmid pAB0057       Acinetobacter baumannii     Acinetobacter baumannii C1 17978 plasmid pABVA01     Acinetobacter baumannii ACC 17978 plasmid pABVA01       RW011WA     Tissue     Healed     NG     None detected       RW011WA     Tissue     Healed     Acinetobacter baumannii (pan resistant)     Escherichia coli plasmid pP123 </td <td>JI691WB</td> <td>lissue</td> <td>Dehisced</td> <td>Staphyllococcus capitis</td> <td>Acinetobacter SUN pRAY</td>	JI691WB	lissue	Dehisced	Staphyllococcus capitis	Acinetobacter SUN pRAY
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KS702WA       Tissue       Dehisced       NG       None detected         KS702WB       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       Dehisced       NG       None detected         LM671WB       Tissue       Dehisced       UNK       None detected         MS201WA       Tissue       Healed       Acinetobacter baumannii       HPV 57*         MS201WJ       Tissue       Healed       NG       Acinetobacter baumannii plasmid pABIR         MW651WA       Tissue       Healed       NG       None detected         MW651WB       Tissue       Healed       UNK       None detected         PH221WA       Tissue       Healed       UNK       None detected         PH221WA       Tissue       Healed       Acinetobacter baumannii       Acinetobacter baumannii plasmid pAB057 plasmid pAB0057         Acinetobacter       Acinetobacter baumannii plasmid pABVA01       Acinetobacter baumannii ATCC 17978 plasmid pAB24         RW011WA       Tissue       Healed       NG       None detected         RW011WA       Tissue       Healed       Acinetobacter baumannii (pan       resistant)       Escherichia coli plasmid pKpn114         Escherichia coli plasmid pKpn114       Escherichia coli plas	KS702WA       Tissue       Dehisced       NG       None detected         KS702WB       Tissue       Dehisced       NG       None detected         LM671WA       Tissue       Dehisced       UNK       None detected         LM671WB       Tissue       Dehisced       UNK       None detected         MS201WA       Tissue       Dehisced       UNK       None detected         MS201WJ       Tissue       Healed       Achromobacter paumannii       HPV 57*         MS201WJ       Tissue       Healed       NG       Acinetobacter baumannii plasmid pABIR         MW651WA       Tissue       Healed       NG       None detected         MW651WA       Tissue       Healed       UNK       None detected         MW651WB       Tissue       Healed       Acinetobacter baumannii       Acinetobacter baumannii AB0057 plasmid pAB0057         Acinetobacter baumannii       Acinetobacter baumannii ATCC 17978 plasmid pABA2       Acinetobacter baumannii ATC 17978 plasmid pAB2         RH491WA       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Acinetobacter sp. SUN plasmid pRY         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid pKN114         Salmonella ente					Borrelia afzelii*
K5702WB     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WB     Tissue     Dehisced     UNK     None detected       MS201WA     Tissue     Healed     Acinetobacter baumannii     HPV 57*       MS201WJ     Tissue     Healed     NG     Acinetobacter baumannii plasmid pABIR       MW651WA     Tissue     Healed     NG     Acinetobacter baumannii plasmid pABIR       MW651WA     Tissue     Healed     NG     None detected       MW651WB     Tissue     Healed     UNK     None detected       PH221WA     Tissue     Healed     UNK     None detected       PH221WA     Tissue     Healed     UNK     None detected       PH221WA     Tissue     Healed     Acinetobacter baumannii AB0057 plasmid pAB057       Acinetobacter baumannii ATCC 17978 plasmid pAB2A01     Acinetobacter baumannii ATC 17978 plasmid pAB2A       Acinetobacter baumannii ATC     Tissue     Healed     NG       RW011WA     Tissue     Healed     NG     None detected       RW011WA     Tissue     Healed     Acinetobacter baumannii (pan     Acinetobacter sp. SUN plasmid pRAY       Escherichia coli plasmid pYL3     Klebsiella pneumoniae plasmid pKpn114	KS702WB     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     NG     None detected       LM671WA     Tissue     Dehisced     UNK     None detected       MS201WA     Tissue     Healed     Acinetobacter baumannii     HPV 57*       MS201WJ     Tissue     Healed     NG     Acinetobacter baumannii plasmid pABIR       MW651WA     Tissue     Healed     NG     None detected       MW651WB     Tissue     Healed     NG     None detected       MW651WB     Tissue     Healed     UNK     None detected       PH221WA     Tissue     Healed     UNK     None detected       PH221WA     Tissue     Healed     Acinetobacter baumannii     Acinetobacter baumannii plasmid pAB057       Acinetobacter     Acinetobacter baumannii     Acinetobacter baumannii plasmid pABVA01     Acinetobacter baumannii APA024AVE       RH491WA     Tissue     Healed     NG     None detected       RW011WA     Tissue     Healed     Acinetobacter baumannii (pan resistant)     Acinetobacter sp. SUN plasmid pRAY       RW011WCL     Tissue     Healed     Acinetobacter baumannii (pan resistant)     Escherichia coli plasmid pS123       Klebsiella pneumoniae plasmid pKpn114     Salmonella entertidis plasmid pK <td< td=""><td>KS702WA</td><td>Tissue</td><td>Dehisced</td><td>NG</td><td>None detected</td></td<>	KS702WA	Tissue	Dehisced	NG	None detected
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RH491WA       Tissue       Healed       NG       None detected         RW011WA       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Acinetobacter sp. SUN plasmid pRAY         Escherichia coli plasmid p9123       Klebsiella pneumoniae plasmid pKpn114       Escherichia coli plasmid p5123         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p9123         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p5123         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p5123         Ruber ender       Klebsiella pneumoniae plasmid pKpn114       Salmonella enteritidis plasmid p5123         Ruber ender       Klebsiella pneumoniae plasmid p5123       Klebsiella pneumoniae plasmid p5123         Ruber ender       Klebsiella pneumoniae plasmid p5123       Klebsiella pneumoniae plasmid p5123         Ruber ender       Klebsiella pneumoniae plasmid p5123       Klebsiella pneumoniae plasmid p5123         Ruber ender       Klebsiella pneumoniae plasmid p5123       Klebsiella pneumoniae plasmid p5123         Ruber ender       Klebsiella pneumoniae plasmid p5123       Klebsiella pneumoniae plasmid p5123         Ruber ender       Klebsiella pneumoniae plasmid p5123	RH491WA       Tissue       Healed       NG       None detected         RW011WA       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Acinetobacter sp. SUN plasmid pRAY         Escherichia coli plasmid p9123       Klebsiella pneumoniae plasmid pKpn114       Escherichia coli plasmid p9123         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p9123         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid pKpn114         Salmonella enteritidis plasmid pK       Escherichia coli plasmid pVI678       Acinetobacter sp. SUN plasmid pRAY         Acinetobacter sp. SUN plasmid pRAY       Salmonella enteritidis plasmid pK       Escherichia coli plasmid pK         Fissue       Healed       NG       None detected         TN631WA       Tissue       Healed       NG         TN631WA       Tissue       Healed       NG         TN631WA       Tissue       Healed       NG         TN631WB       Tissue       Healed       NG	MS201WJ MW651WA MW651WB PH221WA	Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2
RW011WA       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Acinetobacter sp. SUN plasmid pRAY         Escherichia coli plasmid p9123       Klebsiella pneumoniae plasmid pKpn114       Escherichia coli plasmid pETEC6         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p9123         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p9123         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p80114         Salmonella enteritidis plasmid pK       Escherichia coli plasmid pVI678       Acinetobacter sp. SUN plasmid pRAY         Acinetobacter sp. SUN plasmid pRAY       Acinetobacter sp. SUN plasmid pRAY       Acinetobacter sp. SUN plasmid pABIR	RW011WATissueHealedAcinetobacter baumannii (pan resistant)Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli plasmid p213RW011WCLTissueHealedAcinetobacter baumannii (pan resistant)Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli plasmid p9123RW011WCLTissueHealedAcinetobacter baumannii (pan resistant)Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Salmonella enteritidis plasmid pK Escherichia coli plasmid pABIRTN631WATissueHealedNGNone detectedTN631WBTissueHealedNGNone detectedTN631WBTissueHealedNGNone detected	MS201WJ MW651WA MW651WB PH221WA	Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE
RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p9123         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p9123         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p8123         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p80114         Salmonella enteritidis plasmid pK       Escherichia coli plasmid p70678       Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pABIR	resistant)Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli E24377A plasmid pETEC6RW011WCLTissueHealedAcinetobacter baumannii (pan resistant)Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Salmonella enteritidis plasmid pK Escherichia coli plasmid pK Escherichia coli plasmid pK Escherichia coli plasmid pK P114 Salmonella enteritidis plasmid pK Escherichia coli plasmid pABIR Acinetobacter sp. SUN plasmid pABIRTN631WATissueHealedNGNone detectedTN631WBTissueHealedNGBacteroides fragilis IB143 plasmid pB143	MS201WJ MW651WA MW651WB PH221WA RH491WA	Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected
RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli E24377A plasmid pKpn114         Salmonella enteritidis plasmid pK       Escherichia coli plasmid pKpn114         Salmonella enteritidis plasmid pK       Escherichia coli plasmid pKpn114         Salmonella enteritidis plasmid pK       Escherichia coli plasmid pK         Escherichia coli plasmid pABIR       No	RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli E24377A plasmid pETEC6         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid pKpn114         Salmonella enteritidis plasmid pK       Escherichia coli E24377A plasmid pETEC_6       Escherichia coli plasmid pVI678         Acinetobacter sp. SUN plasmid pRAY       Acinetobacter sp. SUN plasmid pRAY         Acinetobacter sp. SUN plasmid pABIR       None detected         TN631WA       Tissue       Healed       NG         TN631WB       Tissue       Healed       NG	MS201WJ MW651WA MW651WB PH221WA RH491WA RW011WA	Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY
RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli E24377A plasmid pETEC6         RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid pSp123         Klebsiella pneumoniae plasmid pK       Escherichia coli E24377A plasmid pETEC_6       Escherichia coli plasmid pVI678         Acinetobacter sp. SUN plasmid pRAY       Acinetobacter sp. SUN plasmid pABIR	RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p9123         Klebsiella pneumoniae plasmid pKpn114       Salmonella enteritidis plasmid pK         Salmonella enteritidis plasmid pVI678       Acinetobacter sp. SUN plasmid pRAY         Acinetobacter sp. SUN plasmid pABIR         TN631WA       Tissue       Healed         TN631WA       Tissue       Healed         Salmonella enteritidis plasmid pABIR       None detected         TN631WB       Tissue       Healed	MS201WJ MW651WA MW651WB PH221WA RH491WA RW011WA	Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant)	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123
RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p9123         Klebsiella pneumoniae plasmid pKpn114       Salmonella enteritidis plasmid pK         Salmonella enteritidis plasmid pVI678       Escherichia coli plasmid pVI678         Acinetobacter sp. SUN plasmid pRAY       Acinetobacter baumannii (pan resistant)	RW011WCL       Tissue       Healed       Acinetobacter baumannii (pan resistant)       Escherichia coli plasmid p9123         Klebsiella pneumoniae plasmid pKp1114       Salmonella enteritidis plasmid pK       Escherichia coli E24377A plasmid pETEC_6         Escherichia coli plasmid pVI678       Acinetobacter sp. SUN plasmid pRAY         Acinetobacter sp. SUN plasmid pABIR         TN631WA       Tissue       Healed         NG       Bacteroides fragilis IB143 plasmid pB143         TN631WB       Tissue       Healed	MS201WJ MW651WA MW651WB PH221WA RH491WA RW011WA	Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant)	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114
resistant) Klebsiella pneumoniae plasmid pKpn114 Salmonella enteritidis plasmid pK Escherichia coli E24377A plasmid pETEC_6 Escherichia coli plasmid pVI678 Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii plasmid pABIR	resistant) Klebsiella pneumoniae plasmid pKpn114 Salmonella enteritidis plasmid pK Escherichia coli E24377A plasmid pETEC_6 Escherichia coli plasmid pVI678 Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii plasmid pABIR TN631WA Tissue Healed NG None detected TN631WB Tissue Healed Enterocorcus faecium None detected	MS201WJ MW651WA PH221WA RH491WA RW011WA	Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant)	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli E24377A plasmid pETEC6
Salmonella enteritidis plasmid pK Escherichia coli E24377A plasmid pETEC_6 Escherichia coli plasmid pVI678 Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii plasmid pABIR	Salmonella enteritidis plasmid pK         Escherichia coli E24377A plasmid pETEC_6         Escherichia coli plasmid pVI678         Acinetobacter sp. SUN plasmid pRAY         Acinetobacter baumannii plasmid pABIR         TN631WA       Tissue         Healed       NG         None detected         TN631WB       Tissue         Healed       NG         Bacteroides fragilis IB143 plasmid pB1143	MS201WJ MW651WA PH221WA RH491WA RW011WA	Tissue Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant) Acinetobacter baumannii (pan	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli E24377A plasmid pETEC6 Escherichia coli plasmid p9123
Escherichia coli E24377A plasmid pETEC_6 Escherichia coli plasmid pVI678 Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii plasmid pABIR	Escherichia coli E24377A plasmid pETEC_6         Escherichia coli plasmid pVI678         Acinetobacter sp. SUN plasmid pRAY         Acinetobacter baumannii plasmid pABIR         TN631WA       Tissue         Healed       NG         None detected         TN631WB       Tissue         Healed       NG         Bacteroides fragilis IB143 plasmid pB1143	MS201WJ MW651WA PH221WA RH491WA RW011WA	Tissue Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant) Acinetobacter baumannii (pan	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114
Escherichia coli plasmid pVI678 Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii plasmid pABIR	Escherichia coli plasmid pVI678         Acinetobacter sp. SUN plasmid pRAY         Acinetobacter baumannii plasmid pABIR         TN631WA       Tissue         Healed       NG         NG31WB       Tissue         Healed       NG         Bacteroides fragilis IB143 plasmid pB143         TN631WB       Tissue	MS201WJ MW651WA PH221WA RH491WA RW011WA	Tissue Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant) Acinetobacter baumannii (pan	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli E24377A plasmid pETEC6 Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Salmonella enteritidis plasmid pK
Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii plasmid pABIR	TN631WA     Tissue     Healed     NG     None detected       TN631WA     Tissue     Healed     NG     Bacteroides fragilis IB143 plasmid pB143       TN631WB     Tissue     Healed     NG     Bacteroides fragilis IB143 plasmid pB143	MS201WJ MW651WB PH221WA RH491WA RW011WA RW011WCL	Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant) Acinetobacter baumannii (pan resistant)	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli E24377A plasmid pFI14 Salmonella enteritidis plasmid pK
Acinetobacter baumannii plasmid pABIR	TN631WA     Tissue     Healed     NG       TN631WA     Tissue     Healed     NG       TN631WA     Tissue     Healed     NG       TN631WB     Tissue     Healed     Entercocccus faecium	MS201WJ MW651WA PH221WA RH491WA RW011WA RW011WCL	Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant) Acinetobacter baumannii (pan resistant)	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli E24377A plasmid pETEC6 Escherichia coli E24377A plasmid pKpn114 Salmonella enteritidis plasmid pK Escherichia coli E24377A plasmid pETEC_6 Escherichia coli E24377A plasmid pETEC_6
	TN631WA     Tissue     Healed     NG     None detected       TN631WA     Tissue     Healed     NG     Bacteroides fragilis IB143 plasmid pB143       TN631WB     Tissue     Healed     Enterococcus faecium     None detected	MS201WJ MW651WA PH221WA RH491WA RW011WA RW011WCL	Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant) Acinetobacter baumannii (pan resistant)	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Salmonella enteritidis plasmid pK Escherichia coli E24377A plasmid pETEC_6 Escherichia coli E24377A plasmid pETEC_6 Escherichia coli plasmid pVI678 Acinetobacter sp. SUN plasmid pRAY
IN631WA Lissue Healed NG None detected	TN631WA Tissue Healed NG Bacteroides fragilis IB143 plasmid pB143	MS201WJ MW651WA PH221WA RH491WA RW011WA RW011WCL	Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant) Acinetobacter baumannii (pan resistant)	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli la24377A plasmid pETEC6 Escherichia coli E24377A plasmid pKpn114 Salmonella enteritidis plasmid pKpn114 Salmonella enteritidis plasmid pFTEC_6 Escherichia coli E24377A plasmid pETEC_6 Escherichia coli E24377A plasmid pETEC_6 Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pRAY
TN631WA Tissue Healed NG Bacteroides fragilis IB143 plasmid pB143	TN631WR Tissue Healed Enterocorcus faerium None detected	MS201WJ MW651WA MW651WB PH221WA RH491WA RW011WA RW011WCL	Tissue Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant) Acinetobacter baumannii (pan resistant)	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli la24377A plasmid pETEC6 Escherichia coli E24377A plasmid pKpn114 Salmonella enteritidis plasmid pKpn114 Salmonella enteritidis plasmid pK Escherichia coli E24377A plasmid pETEC_6 Escherichia coli E24377A plasmid pETEC_6 Escherichia coli Basmid pVI678 Acinetobacter sp. SUN plasmid pRAY Acinetobacter baumannii plasmid pABIR None detected
TN621WP Tissue Haalad Estargassus fasium None datastid	HIVE HEAD HEAD HEAD HEAD HEAD HEAD HEAD HEA	MS201WJ MW651WA PH221WA RH491WA RW011WA RW011WCL TN631WA TN631WA	Tissue Tissue Tissue Tissue Tissue Tissue Tissue Tissue	Healed Healed Healed Healed Healed Healed Healed Healed Healed	Acinetobacter baumannii Achromobacter sp. NG NG UNK Acinetobacter baumannii NG Acinetobacter baumannii (pan resistant) Acinetobacter baumannii (pan resistant)	HPV 57* Borrelia afzelii* Acinetobacter baumannii plasmid pABIR None detected None detected Acinetobacter baumannii AB0057 plasmid pAB0057 Acinetobacter baumannii plasmid pABVA01 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii ATCC 17978 plasmid pAB2 Acinetobacter baumannii AYE plasmid p2ABAYE None detected Acinetobacter sp. SUN plasmid pRAY Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Escherichia coli la24377A plasmid pETEC6 Escherichia coli plasmid p9123 Klebsiella pneumoniae plasmid pKpn114 Salmonella enteritidis plasmid pKpn114 Salmonella enteritidis plasmid pFTEC_6 Escherichia coli plasmid pVI678 Acinetobacter sp. SUN plasmid pRAY Acinetobacter sp. SUN plasmid pABIR None detected Bacteroides fragilis IB143 plasmid nB1143

TN631WB	Tissue	Healed	Enterococcus faecium	HPV 71*
				Salmonella enterica*
				borrelia afzelii*
ZB191WA	Tissue	Healed	Acinetobacter baumannii	HPV71*
ZB191WB	Tissue	Healed	Enterobacter cloacae	Acinetobacter baumannii plasmid pABIR
			Acinetobacter baumannii	Enterobacter cloacae plasmid pEC01
				Escherichia coli plasmid pIGRW12
ZB191WB	Tissue	Healed	Enterobacter cloacae	Enterobacter cloacae plasmid pEC01*
			Acinetobacter baumannii	
ZB191WF	Tissue	Healed	NG	Acinetobacter sp. SUN plasmid pRAY
ZB192WA	Tissue	Healed	Acinetobacter baumannii	Acinetobacter sp. 6014059
				Acinetobacter baumannii ACICU
				Acinetobacter baumannii
				Enterobacter cloacae plasmid pEC01
				Escherichia coli plasmid pIGRW12
ZB192WC	Tissue	Healed	NG	Acinetobacter baumannii plasmid pABIR
CE741EA2	Effluent	Healed	UNK	None detected
CE742EA2	Effluent	Healed	NG	None detected
CG531EA2	Effluent	Healed	NG	None detected
CL461EA2	Effluent	Healed	NG	None detected
CM511EA2	Effluent	Healed	NG	None detected
CU501EA2	Effluent	Dehisced	NG	None detected
CU502EA2	Effluent	Healed	NG	None detected
DC551EA2	Effluent	Healed	NG	None detected
DD451EA2	Effluent	Healed	NG	None detected
DM231EB2	Effluent	Healed	NG	None detected
DM231EBON	Effluent	Healed	NG	Acinetobacter sp. 6013150
				Acinetobacter baumannii plasmid ACICU
				Acinetobacter baumannii plasmid pAB0057
				Acinetobacter baumannii AB0057
				Acinetobacter baumannii plasmid pMMA2
				Acinetobacter baumannii ATCC 17978 plasmid pAB2
				Salmonella enterica
EB471EA2	Effluent	Dehisced	Acinetobacter baumannii	Acinetobacter sp. SUN plasmid pRAY
ET662EB2	Effluent	Dehisced	NG	None detected
E1662EBON	Effluent	Dehisced	NG	None detected
HP561EA2	Effluent	Healed	NG	HHV 6A
	Effluent	Healed	NG	
HPSOLEBON	Enluent	nealeu	NG	Recudementes en 5 47 plasmid n475*
15711542	Effluont	Dehissed	NC	None detected
IS/IIEAZ	Enluent	Deniscen	NG	
IS711EB2	Effluent	Dehissed	Stanatranhamanas maltanhilia	None detected
137 IILDON	Effluent	Dehisced	Stenotrophomonas maltophilia	None detected None detected Pseudomonas aeruginosa PAb1
	Effluent Effluent	Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia	None detected None detected Pseudomonas aeruginosa PAb1 Recudomonas aeruginosa C2710
	Effluent Effluent	Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Recudomonas aeruginosa PAO1
	Effluent Effluent	Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa PAO1 Pseudomonas aeruginosa LICBPP-PA14
	Effluent Effluent	Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa PAO1 Pseudomonas aeruginosa UCBPP-PA14 Pseudomonas aeruginosa PACS2
	Effluent Effluent	Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa PAO1 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N
	Effluent Effluent	Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa PAO1 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromohacter vylosovidans A8
	Effluent Effluent	Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa PAO1 Pseudomonas aeruginosa UCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057*
	Effluent Effluent	Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa PAO1 Pseudomonas aeruginosa UCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578*
IS712FA2	Effluent Effluent	Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected
IS712EA2 IS712FP2	Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa PAO1 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected None detected
IS712EA2 IS712EB2 IS712EB0N	Effluent Effluent Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG NG	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected None detected Acinetobacter sp. 6013113
IS712EA2 IS712EB2 IS712EBON	Effluent Effluent Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG NG NG	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected None detected Acinetobacter sp. 6013113 Acinetobacter baumannii plasmid pRAY
IS712EA2 IS712EB2 IS712EBON	Effluent Effluent Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG NG NG	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa PAO1 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected Acinetobacter sp. 6013113 Acinetobacter baumannii plasmid pRAY Acinetobacter baumannii SDF
IS712EA2 IS712EB2 IS712EBON	Effluent Effluent Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG NG NG	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected Acinetobacter sp. 6013113 Acinetobacter baumannii plasmid pRAY Acinetobacter baumannii SDF Acinetobacter baumannii plasmid pMMA2
IS712EA2 IS712EB2 IS712EBON	Effluent Effluent Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG NG NG	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected Acinetobacter sp. 6013113 Acinetobacter baumannii plasmid pRAY Acinetobacter baumannii SDF Acinetobacter baumannii plasmid pMMA2 Pseudomonas aeruginosa PAb1
IS712EA2 IS712EB2 IS712EBON	Effluent Effluent Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG NG NG	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected Acinetobacter sp. 6013113 Acinetobacter baumannii plasmid pRAY Acinetobacter baumannii plasmid pRAY Acinetobacter baumannii plasmid pMMA2 Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719
IS712EA2 IS712EB2 IS712EBON	Effluent Effluent Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG NG NG	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PACS2 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected Acinetobacter sp. 6013113 Acinetobacter baumannii plasmid pRAY Acinetobacter baumannii plasmid pMMA2 Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa PAO1
IS712EA2 IS712EB2 IS712EBON	Effluent Effluent Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced Dehisced Healed	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG NG NG NG Enterococcus faecium	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PAC52 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected None detected Acinetobacter sp. 6013113 Acinetobacter baumannii plasmid pRAY Acinetobacter baumannii plasmid pMMA2 Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa PAO1 None detected
IS712EA2 IS712EB2 IS712EBON JC272EA2 JD681EA2	Effluent Effluent Effluent Effluent Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced Dehisced Healed Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG NG NG NG Enterococcus faecium NG	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PAC52 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected None detected Acinetobacter sp. 6013113 Acinetobacter baumannii plasmid pRAY Acinetobacter baumannii plasmid pMMA2 Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa PAO1 None detected None detected
IS712EA2 IS712EB2 IS712EBON JC272EA2 JD681EA2 JD682EA2	Effluent Effluent Effluent Effluent Effluent Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced Dehisced Dehisced Healed Healed	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG NG NG Enterococcus faecium NG	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PAC52 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected None detected Acinetobacter sp. 6013113 Acinetobacter baumannii plasmid pRAY Acinetobacter baumannii plasmid pMMA2 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa PAO1 None detected None detected None detected None detected None detected None detected HPV57*
IS712EA2 IS712EB2 IS712EBON JC272EA2 JD681EA2 JD682EA2 JG351EA2	Effluent Effluent Effluent Effluent Effluent Effluent Effluent Effluent Effluent	Dehisced Dehisced Dehisced Dehisced Dehisced Dehisced Healed Healed Dehisced	Stenotrophomonas maltophilia Stenotrophomonas maltophilia NG NG NG NG Senterococcus faecium NG NG Bacillus cereus	None detected None detected Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa VCBPP-PA14 Pseudomonas aeruginosa PAC52 Bordetella avium 197N Achromobacter xylosoxidans A8 Acinetobacter baumannii AB0057 plasmid pAB0057* Klebsiella pneumoniae MGH78578* None detected Acinetobacter sp. 6013113 Acinetobacter sp. 6013113 Acinetobacter baumannii plasmid pRAY Acinetobacter baumannii plasmid pRAY Acinetobacter baumannii plasmid pMMA2 Pseudomonas aeruginosa PAb1 Pseudomonas aeruginosa C3719 Pseudomonas aeruginosa PAO1 None detected None detected HPV57* Bacillus cereus AH676

JG352EA2	Effluent	Dehisced	Acinetobacter sp. Alloicoccus otidis	None detected
JM331EA2	Effluent	Dehisced	NG	None detected
JM332EA2	Effluent	Dehisced	NG	None detected
JM721EA2	Effluent	Dehisced	NG	Roseburia hominis A2–183*
JM722EA2	Effluent	Dehisced	NG	None detected
JP601EA2	Effluent	Healed	NG	Pasteurella multocida 381 plasmid pCCK381*
IR281FA2	Effluent	Healed	Acinetobacter	Acinetobacter sp. 6013113
5112012/12	Lindent	neuleu	baumannii/calcoaceticus complex	Acinetobacter baumannii TCDC Acinetobacter baumannii plasmid pRAY
				Acinetobacter baumannii ATCC 27244 Acinetobacter baumannii ATCC 17978 plasmid pAB1 Acinetobacter baumannii ACICU
JR342EA2	Effluent	Dehisced	Acinetobacter baumannii	Acinetobacter sp. 6013150 Acinetobacter sp. SUN plasmid pRAY
	Effluent	Heeled	NC	Acinetobacter baumannii AB307-0294
JR481EA2	Effluent	Healed	NG	None detected
JT691EA2	Effluent	Dehisced	NG	None detected
J1691EB2	Effluent	Dehisced	Staphylococcus capitis	Acinetobacter sp. SUN plasmid pRAY* Acinetobacter baumannii plasmid pMMA2*
JT691EBON	Effluent	Dehisced	Staphylococcus capitis	Acinetobacter sp. 6013113
				Acinetobacter sp. SUN plasmid pRAY
				Acinetobacter baumannii SDF
				Acinetobacter baumannii plasmid pMMA2
JT691ECON	Effluent	Dehisced	NG	Acinetobacter sp. 6013113
				Acinetobacter sp. SUN plasmid pRAY
				Acinetobacter baumannii SDF
				Acinetobacter baumannii plasmid pMMA2
				Pseudomonas putida F1
				Pseudomonas entomophila L48
				Pseudomonas putida GB-1
KS701EA2	Effluent	Healed	NG	None detected
KS702EA2	Effluent	Dehisced	NG	None detected
KS702EA2	Effluent	Healed	NG	None detected
KS702EBON	Effluent	Dehisced	NG	Acinetobacter sp. 6013150
				Acinetobacter baumannii plasmid ACICU
				Acinetobacter baumannii plasmid pAB0057
				Acinetobacter baumannii plasmid pRAY
				Acinetobacter baumannii AB307-0294
				Acinetobacter baumannii plasmid pAB2
				Escherchia coli MS200-1*
				Shigella sonnei 53G plasmid D*
LM671EA2	Effluent	Dehisced	NG	Pseudomonas sp. S-47 plasmid p47S*
LM671EB2	Effluent	Dehisced	UNK	None detected
LM671EBON	Effluent	Dehisced	UNK	None detected
LS611EA2	Effluent	Healed	NG	None detected
MK581EA2	Effluent	Healed	UNK	None detected
MM591EA2	Effluent	Healed	UNK	Bacteroides plebeius DSM 17135
				Bacteroides fragilis NCTC 9343
				Bacteroides fragilis plasmid pBFP35
				Bacteroides fragilis WI1 plasmid pbHag-01
				Enterococcus faecium TX0133C*
MM592EA2	Effluent	Healed	UNK	None detected
MS161EA2	Effluent	Healed	Acinetobacter baumannii	Acinetobacter sp. 6014059
				Acinetobacter baumannii ACICU plasmid pACICU2
				Acinetobacter baumannii AB307–0294
				Human papillomavirus type 57
MS163EA2	Effluent	Dehisced	NG	Acinetobacter baumannii plasmid pABIR
MW651EB2	Effluent	Healed	UNK	None detected
MW651EBON	Effluent	Healed	UNK	None detected
PF521EA2	Effluent	Healed	NG	None detected
PR621EA2	Effluent	Healed	NG	None detected
PR622EA2	Effluent	Healed	NG	None detected
RH491EA2	Effluent	Healed	NG	None detected
RT752FA2	Effluent	Dehisced	UNK	None detected
000000	Effluont	Healed	UNK	None detected

TC541EA2	Effluent	Dehisced	NG	None detected
TC542EA2	Effluent	Healed	NG	None detected
TN631EA2	Effluent	Healed	NG	None detected
TN631EB2	Effluent	Healed	Enterococcus faecium	*Streptomyces sp. x3 plasmid pTSC2
TN631EBON	Effluent	Healed	Enterococcus faecium	*Streptomyces avermitilis
				*Streptomyces sp. x3 plasmid pTSC2
ZB191EB2	Effluent	Healed	Enterobacter cloacae	Acinetobacter sp. 6014059
			Acinetobacter baumannii	Acinetobacter baumannii ACICU
				Acinetobacter baumannii AB307-0294
				Uncultured bacterium plasmid pB10
ZB191EBON	Effluent	Healed	Enterobacter cloacae	Acinetobacter sp. 6014059
			Acinetobacter baumannii	Acinetobacter baumannii ACICU plasmid pACICU
				Acinetobacter baumannii AB307-0294
				Escherichia coli APEC O1 plasmid pAPEC-O1-R
				Enterobacter sp. W001 plasmi pR23
				Uncultured bacterium plasmid pB10

## APPENDIX B.

Hierarchical charts demonstrating bacterial species detected by analysis of metagenomic sequence data from four additional samples in pilot sequencing run.

## JT691ECON



## **JG352EA2**

