

HOW IT IS DONE



COLLECTION:
The eSwab is a liquid-based multi-purpose collection for bacteria and fungi.



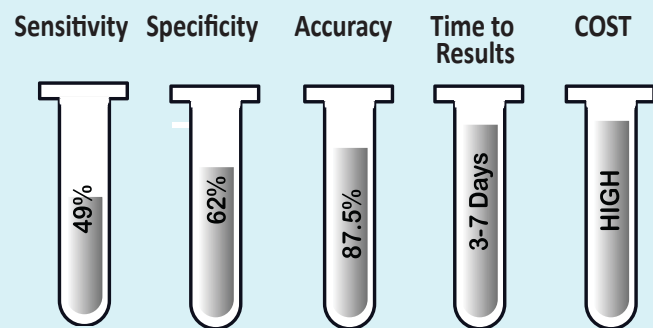
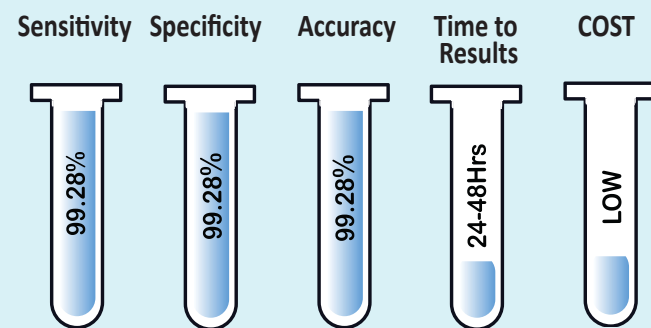
PERFORMANCE:
Real-Time PCR - QuantStudio 12K Flex System by Thermo Fisher Scientific.

DIAGNOSTIC PERFORMANCE

MOLECULAR

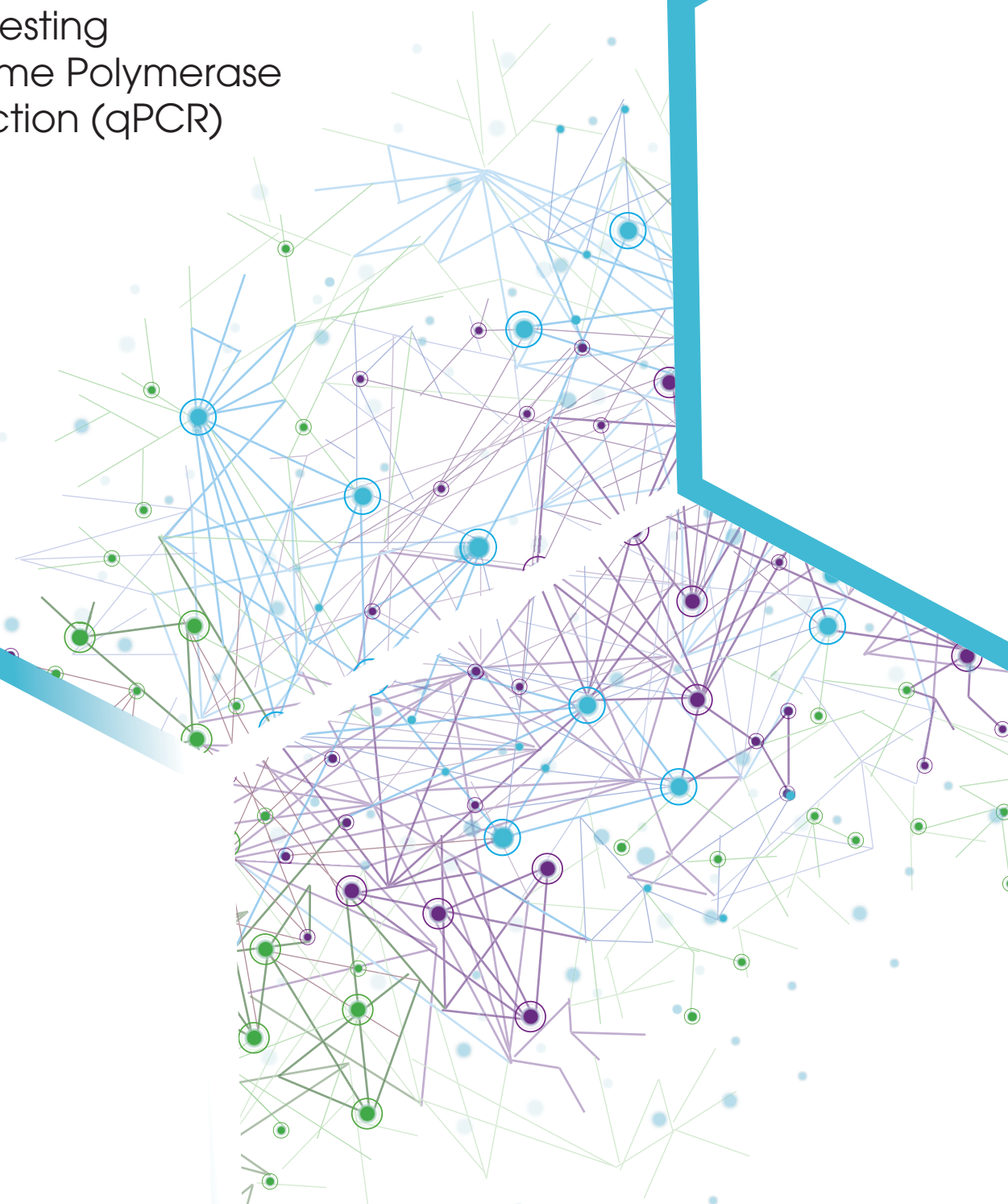
VS

CULTURE



COMPREHENSIVE WOUND PATHOGEN PANEL

Molecular testing with Real-Time Polymerase Chain Reaction (qPCR)



SAMPLE REPORT

SUREdx
241 Molnar Dr Suite A1 | Elmwood Park, NJ 07407 | (201)791-7293
Director: Seshamma T. Reddy, M.D. CLIA #: 31D2063148

1 Client: SURETOX
Client #: 1
Chart #: A2006255001
Provider:

Patient: WOUND_TEST1
DOB: 06/23/2020
Gender: U
Specimen Type: UNIVERSAL SWAB
Collected: 06/26/20

Lab Accession #: 2006255001
Accessioned: 06/26/20 09:12
Reviewed & Approved: [Signature]
Reported: 06/26/20 13:37
By:

2 **MOLECULAR WOUND ORGANISM SUMMARY**

ORGANISM(S) DETECTED	ANTIBIOTIC RESISTANCE GENE(S) DETECTED
Organism Presence	Antibiotic Resistance Marker Presence
E. faecium Detected	ermB Macrolide Present
	vanA Vancomycin Present

3 **WOUND PANEL**

Test	Presence	Remarks
AEROBIC GRAM-POSITIVE		
E. faecalis	Not Detected	
E. faecium	Detected	
M. abscessus	Not Detected	
M. chelonae	Not Detected	
S. aureus	Not Detected	
K. oxytoca	Not Detected	
K. pneumoniae	Not Detected	
S. epidermidis	Not Detected	
S. lugdunensis	Not Detected	
S. agalactiae	Not Detected	
S. pyogenes	Not Detected	
AEROBIC GRAM-NEGATIVE		
A. baumannii	Not Detected	
C. freundii	Not Detected	
E. aerogenes	Not Detected	
E. cloacae	Not Detected	
E. coli	Not Detected	
P. mirabilis	Not Detected	
P. vulgaris	Not Detected	
P. aeruginosa	Not Detected	
ANAEROBIC GRAM-POSITIVE		
C. perfringens	Not Detected	
C. propium	Not Detected	
B. fragilis	Not Detected	
F. intermedia	Not Detected	
F. oralis	Not Detected	
FUNGI		
A. flavus	Not Detected	
A. fumigatus	Not Detected	
A. niger	Not Detected	
C. albicans	Not Detected	
C. parapsilosis	Not Detected	
C. glabrata	Not Detected	
C. tropicalis	Not Detected	
C. krusei	Not Detected	

3 **3** Organisms tested and results

Client: SURETOX
Client #: 1
Chart #: A2006255001
Provider:

Patient: WOUND_TEST1
DOB: 06/23/2020
Gender: U
Specimen Type: UNIVERSAL SWAB

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The results given are for clinical diagnostic purposes only. SURETOX LLC (201)791-7293 Page 1 of 4

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241 Molnar Dr Suite A1 | Elmwood Park, NJ 07407 | (201)791-7293
Director: Seshamma T. Reddy, M.D. CLIA #: 31D2063148

Collected: 06/26/20

Test	Presence	Remarks
ANTIBIOTIC RESISTANCE WD		
CTX-M group 1	Absent	
emA Macrolide	Absent	
ermB Macrolide	Present	
IMP Carbapenem	Absent	
KPC Carbapenem	Absent	
mecA Methicillin	Absent	
NDM Carbapenem	Absent	
OXA-48 Carbapenem	Absent	
SHV ESBL	Absent	
VIM Carbapenem	Absent	
vanA Vancomycin	Present	
vanB Vancomycin	Absent	
TETM Tetracyclines	Absent	
AmpC Carbapenems	Absent	
CTX-M group 2	Absent	
CTX-M group 9	Absent	
CTX-M group 8/25	Absent	

1 Patient Information

2 Organisms and ABR Detected

3 Organisms tested and results

Suretox Laboratory

241 Molnar Drive, Unit A1
Elmwood Park, NJ 07407
Phone: 201-791-7293 | Fax: 866-425-4630
E-mail: admin@suretoxlab.com
Website: www.suretoxlab.com



What is a wound injury:

A wound is a break in the continuity of any tissue on the body, due to an external or internal factor. Many factors, including life style and medical conditions, may slow the wound healing process and increase the risk of infection. Molecular diagnostic methods have been used to accurately identify the composition of chronic wounds and guide treatment in a number of study models.

Who should get tested:

- Feeling of overall malaise
- Green, cloudy (Purulent) or Malodorous drainage
- Increasing or continual pain from wound
- Redness around wound
- Swelling of wounded area
- Hot skin near wound

Why get tested:

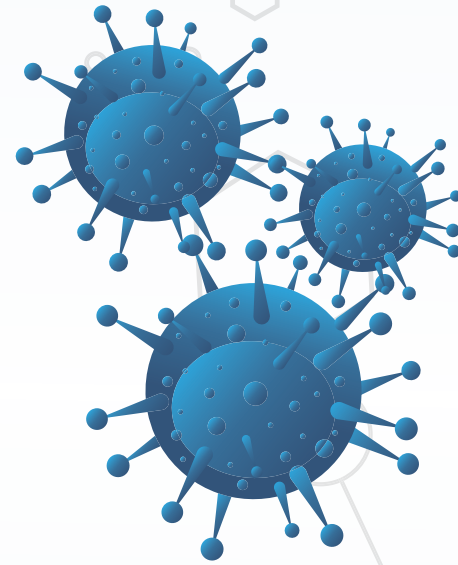
Chronic wounds are difficult for physicians to treat and are complicated by risk factors that are either systemic or localized.

Systemic

- Diabetes mellitus
- Vascular disease
- Malnutrition
- Alcoholism prior to surgery

Localized

- The mechanism of injury that created the wound
- Presence of multiple pathogens in the wound
- Antibiotic resistance within the pathogens in the present in the wound
- The duration of the wound
- Size and depth of the wound
- Presence of necrotic tissue

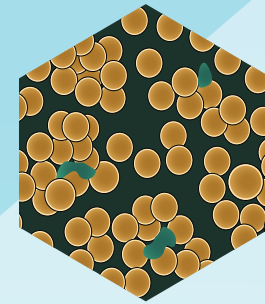


WHAT WE DO

Utilize 43 array based assays to detect a wide array of bacteria, fungi, and antibiotic resistance genes.

All pathogen DNA is extracted within 48 hours.

Samples are processed in triplicate to ensure validity of the results.



BACTERIA

Aerobic Bacteria

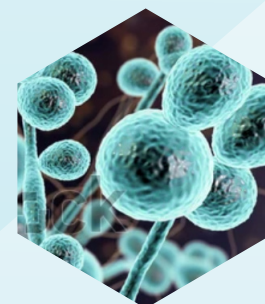
Gram-Positive
E. Faecalis
E. Faecium
M. Abscessus
M. Chelonae
S. Aureus
K. Oxycota
K. Pneumonia
S. Epidermidis
S. Lugdunensis
S. Agalactiae
S. Pyogenes

Gram-Negative
A. Baumannii
C. Feundii
E. Aerogenes
E. Cloacae
E. Coli
P. Mirabillii
P. Vulgaris
P. Aeruginosa

Anaerobic Bacteria

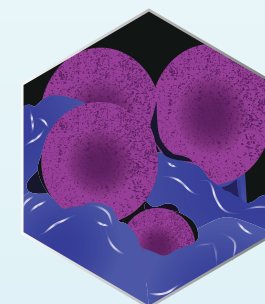
Gram-Positive
C. Perfigens
C. Septicum

Gram-Negative
B. Fragillii
P. Intermedia
P. Oralii



FUNGI

Aspergillus flavus
Aspergillus niger
Aspergillus fumigatus
Candida albicans
Candida glabrata
Candida krusei
Candida tropicalis
Candida parapsilosis



ANTIBIOTIC RESISTANCE GENES

vanA	KPC
vanB	IMP
ermA	OXA-48
ermB	CTX-M group 1
TETM	CTX-M group 2
VIM	CTX-M group 9
SME	CTX-M group 8/25
SHV	
NDM	
mecA	