Wound Care and Skin Infections

Detection of Wound and skin infectious agents using DNA-based PCR technology

AIM Labs takes wound care to the next level with DNA-based PCR Tests.

Skin is the body's first line of defense, and wound infections can interfere with the healing process and can create additional tissue damage. Patients with underlying conditions are especially vulnerable for these types of infections, resulting in slower wound healing and greater risk of wound infections. Some of those conditions include:

- Poor blood circulation
- Diabetes
- Weakened/suppressed immune system
- HIV/AIDS
- Organ transplant recipient
- Low mobility or immobility
- Malnutrition

Benefits of AIM Laboratories' Wound Testing Menu

AIM Laboratories utilizes molecular genetic tests with TaqMan probe-based fluorescent-Real-Time PCR to detect the presence or absence of specific pathogens. If any tested pathogens are present in a patient sample, we will perform a reflex antibiotic resistance test (ABR, 44 different antibiotic resistance genes). We provide the results within 24 hours after receipt of the sample. The ABR program provides medical providers with antibiotic treatment options based on specific pathogens.

AIM Labs' Wound and Skin Infections DNA-based PCR test has many benefits, including:

- Highest sensitivity and specificity test available
- Definitive diagnosis enables effective therapy decisions
- Next day test results to drive faster patient care
- Simple skin scraping or wound swabs collection technique
- Wound/skin infections (43 pathogens: 34 bacteria, 4 yeasts, and 5 fungi).

DNA-based PCR Testing for Wounds	VS	Traditional Culture, Biochemical Tests
Genetic-based tests (Polymerase chain Reaction, PCR)		Culture/Biochemical/microscopic-based tests
Specific, sensitive and rapid (<24h TAT)		Ambiguity: requires additional tests
Most, if not all, pathogens can be assayed at one time.		Some pathogens require more time to culture and some may not be culturable.
Accurately identify resistance genes and therefore can prescribe correct medicine.		Mutations may occur in microbes during in-vitro culture, which may mislead pathogen antibiotic resistance.
Pathogens in biofilm can be identified.		Microbes are able to form biofilms which makes it difficult to identify an antibiotic sensitivity.
PCR is clinically approved.		

EVERY TEST COUNTS

AIM Labs combines the most experienced scientists and researchers with a passion for what matters – accurate and timely results for patients with reports that are informative and easy to understand. That's why we have earned accolades from our clients and their patients. At AIM Labs we take pride in:

- Being locally owned and operated
- Led by passionate scientists and staff
- Providing unparalleled service and support to our clients.

CERTIFICATIONS

- CLIA Certification #26D1101943
- COLA Certification #21428
- Official Missouri Testing Lab for COVID-19

CONNECT WITH US

3165 McKelvey Road
Bridgeton, MO 63044
314-743-3748

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Antibiotic Resistance (ABR) Panel

vanA, and vanB
MecA, and C
ermA, B and C
mefA
qnrA (alles qnrA1, qnrA2, qnrA9)
QnrB_1, 2, 3 and 4
Tet(M), TetS
SHV
KPC
IMP-1 and 2 groups
NDM-bla
VIM
ACT
FOX-AmpC
blaACC-4
OXA-48, and 51
PER-1
VEB
GES
dfrA1 and dfrA5
sul1 and sul2
CTX-M_1, 2, 8 and 9
ampC
CMY/MOX
mcr-1
femA (to confirm MRSA pathogen)
cfr
BIL/LAT/CMY

Wound Skin Infection Panel

Aconetobacter baumanii
Anaerococcus vaginalis
Bacteroides fragillis
Candida albicans (yeast)
Candida glabrata (yeast)
Candida parapsilosis (yeast)
Candida tropicalis (yeast)
Citrobacter freundii
Clostridium perfringenes
Clostridium septicum
Corynebacterium jeikeium
Corynebacterium striatum
Corynebacterium tuberculostearicum
Escherichia coli
Enterobacter aerogenes
Enterobacter cloacae
Enterococcus faecalis
Enterococcus faecium
Finegoldia magna/ Peptostreptococcus maganus
Fusobacterium necrophorum
Fusobacterium nucleatum
Klebsiella pneumoniae
Peptoniphilus harei
Peptoniphilus ivorii
Peptostreptococcus prevotii
Peptostreptococcus anaerobius
Peptostreptococcus asaccharolyticus
Proteus mirabilis
Pseudomonas aeruginosa
Serratia marcescens
Staphylococcus aureus
Staphylococcus epidermidis
Staphylococcus haemolyticus
Staphylococcus lugdunensis
Streptococcus pyogenes
Trichophyton rubrum (fungus)
Arthroderma vanbreuseghemii / Trichophyton mentagrophytes (fungus)
Sporothrix brasiliensis, globose and schenckii (fungi)

Thermo Fisher Scientific's QuantStudio® 12L Flex Real-Time PCR System enables AIM Labs to perform highly accurate results rapidly to our clients and their patients.