



## Broad-Range MDx

### SepsiTest™-UMD

**Identify >345 Bacteria and Fungi  
in Tissues, Body Fluids, Swabs**



## UMDUniversal Pathogen Identification

SepsiTTest™-UMD is a precise culture-independent routine diagnosis to address:

- Non-growing pathogens under antibiotic treatment
- Rare pathogens, including anaerobic and fastidious organisms

SepsiTTest™-UMD allows the identification of more than 345 bacteria and fungi in relation to:

- |                         |                         |
|-------------------------|-------------------------|
| • Endocarditis          | • Sepsis                |
| • Orthopedic infections | • Meningitis            |
| • Tuberculosis          | • Pneumonia and more... |
| • Wound infections      |                         |

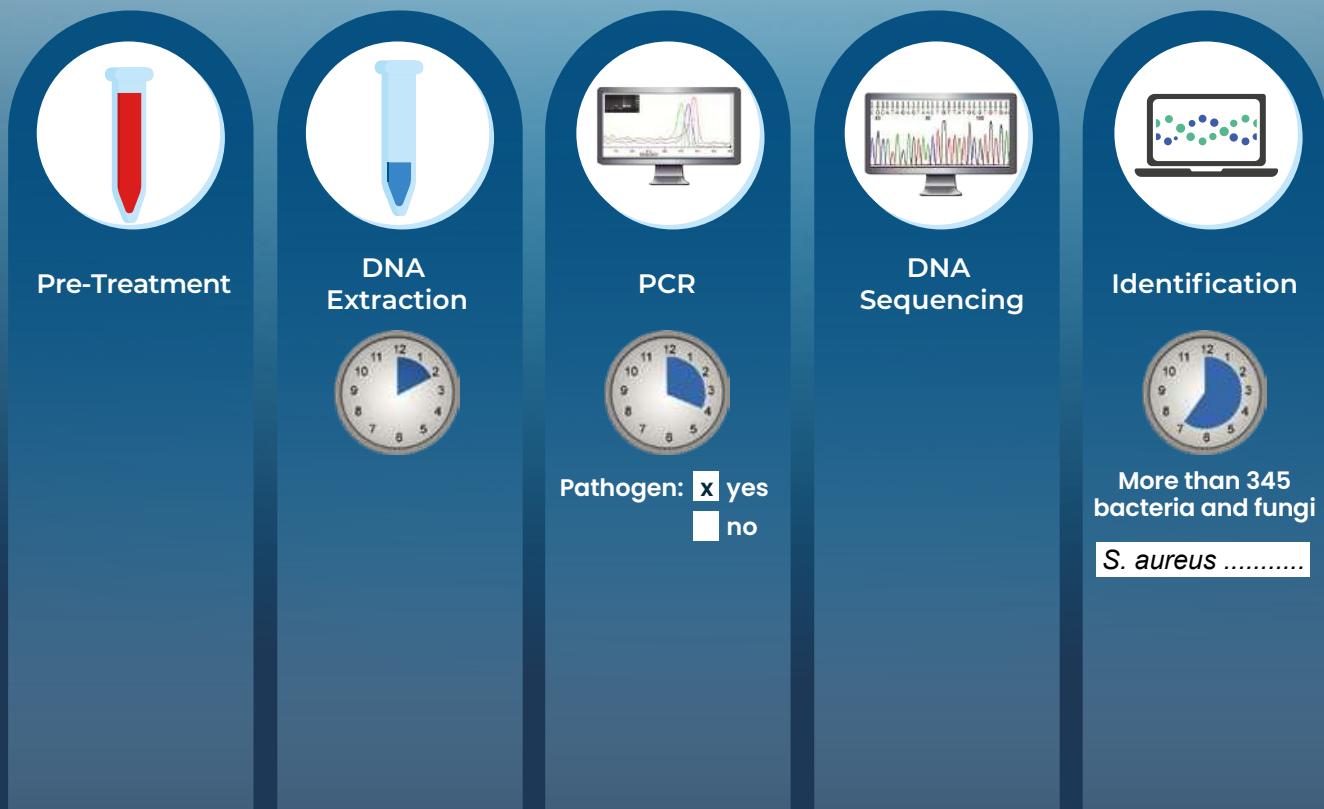
## Clinical Benefit

SepsiTTest™-UMD increases the rate of diagnosis of true infections (40% to 67%, Fig. 1) by the identification of pathogens in culture-negative patients.

SepsiTTest™-UMD identifies pathogens in 35% [2] to 45% [5] of patients 12 h to 3 days earlier than blood culture. In infective endocarditis, SepsiTTest™- UMD provides pathogen identity even up to 8 days earlier [6].



Fig. 1: Ratio of positive results by culture (BC), SepsiTTest™-UMD (PCR) or both methods obtains with orthopaedic (combined BC and PCR positivity: 25/84 patients [30%; 1]), blood (59/187 [32%; 2]), heart valves (21/30 [70%; 3]) and CSF (14/20 [70%; 4]). Note the considerable ratio of culture-negative patients with clinically relevant PCR positive results (BC/PCR+).



## Unique DNA Extraction

High sensitivity and specificity gained by the DNA extraction protocol of SepsiTTest™-UMD:

- > 99% removal of human and free floating microbial DNA
- Broad-range lysis of bacteria and fungi
- DNA enrichment and isolation of live bacteria and fungi

## Highly Sensitive PCR Performance

SepsiTTest™-UMD includes DNA-free PCR reagents for the detection of bacterial and fungal DNA:

- Assays: 16S / 18S rRNA gene PCR
- Amplification: 40 cycles routinely
- Controls: PCR-positive & negative, extraction control
- Identification: Sanger sequencing analysis.

## Automation

SelectNA™plus: Fully-Automated DNA Extraction:

- Hands on time: 10min\*
- Total process time: 90min\*
- 1 - 12 samples in parallel
- Various specimens: body fluids, swabs and tissue

\*Depending on specimens and number of samples



## Microbe Differentiation

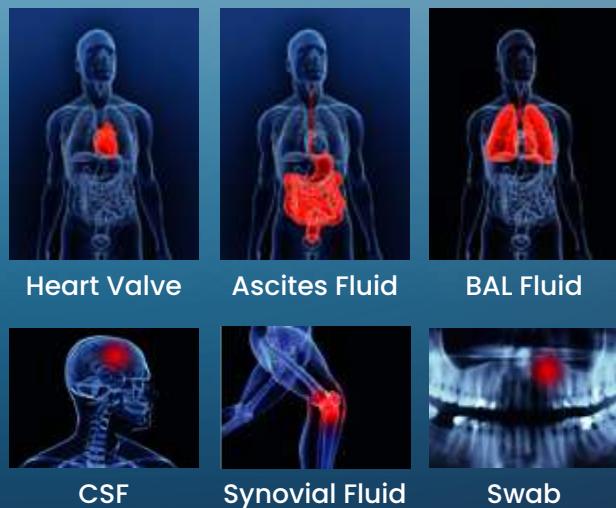
SepsiTTest™-BLAST is a free online BLAST tool for sequence analysis that relies on edited sequences from more than 7,000 cultivated reference strains of bacteria, yeasts and Aspergillus spp.

## Analytical Sensitivity

Best performance with SepsiTTest™-UMD for highly sensitive pathogen diagnostics:

Strain	cfu/ml blood
Escherichia coli	40
Klebsiella pneumoniae	50
Staphylococcus aureus	20
Streptococcus pneumoniae	50
Enterococcus faecalis	20
Candida albicans	10
Candida glabrata	10

## Specimens



## Selection of Identified Pathogens:

Gram-negative bacteria	Edwardsiella tarda	Providencia stuartii	Dolosigranulum pigrum	Propionibacterium spp.
Achromobacter xylosoxidans	Elizabethkingia meningoseptica	Pseudomonas spp.	Eggerthella lenta	Rhodococcus spp.
Acidovorax spp.	Enhydrobacter aerosaccus	Ralstonia spp.	Enterococcus spp.	Rothia spp.
Acinetobacter spp.	Enterobacter spp.	Raoultella planticola	Eremococcus coleocola	Staphylococcus spp.
<i>Aeromonas veronii</i>	<i>Escherichia</i> spp.	<i>Rickettsia typhi</i>	<i>Eubacterium</i> spp.	<i>Streptococcus</i> spp.
Afipia broomeae	Fusobacterium spp.	Serratia marcescens	Facklamia spp.	Tropheryma whipplei
Aggregatibacter aphrophilus	Haemophilus spp.	Shigella spp.	Finegoldia magna	Tsukamurella spp.
Anaerotruncus colihominis	Hafnia alvei	Stenotrophomonas maltophilia	Gardnerella vaginalis	Ureaplasma urealyticum
<i>Bacteroides</i> spp.	Helicobacter pylori	<i>Veillonella</i> spp.	<i>Gemella</i> spp.	<i>Vagococcus</i> spp.
Bartonella quintana	Kingella spp.	Weeksella spp.	Gordonia spp.	Wolbachia sp.
<i>Bordetella</i> spp.	<i>Klebsiella</i> spp.	<i>Yersinia</i> spp.	<i>Granulicatella adiacens</i>	Fungi
Borrelia garinii	Kerstersia spp.	<b>Gram-positive bacteria</b>		Janibacter spp.
<i>Bosea</i> spp.	<i>Kluyvera cryocrescens</i>	<i>Abiotrophia</i> spp.	<i>Kocuria</i> spp.	<i>Candida</i> spp.
Brucella spp.	Lautropia mirabilis	Actinomyces spp.	Lactobacillus spp.	Cladosporium cladosporioides
<i>Burkholderia</i> spp.	<i>Legionella pneumophila</i>	<i>Aerococcus</i> spp.	<i>Lactococcus</i> spp.	<i>Cryptococcus</i> spp.
Campylobacter spp.	Leptotrichia spp.	Alloiococcus otitis	Leifsonia spp.	Didymella exitialis
Cand. Neoehrlichia mikurensis	Massilia spp.	Anaerococcus spp.	Listeria monocytogenes	Davidiella tassiana
Capnocytophaga spp.	Methylobacterium spp.	Atopobium spp.	Microbacterium spp.	Fusarium spp.
<i>Chryseobacterium indologenes</i>	<i>Moraxella</i> spp.	<i>Bacillus</i> spp.	<i>Micrococcus</i> spp.	<i>Malassezia</i> spp.
Citrobacter freundii	Morganella morganii	Bifidobacterium spp.	Mogibacterium timidum	Pseudallescheria boydii
<i>Cloacibacterium normanense</i>	<i>Neisseria</i> spp.	<i>Brevibacterium</i> spp.	<i>Mycobacterium</i> spp.	<i>Saccharomyces cerevisiae</i>
Comamonas testosteroni	Pantoea agglomerans	Carnobacterium spp.	Mycoplasmaspp.	Schizophyllum radiatum
<i>Coxiella burnetii</i>	<i>Paracoccus</i> spp.	<i>Clostridium</i> spp.	<i>Nocardia</i> spp.	<i>Sporobolomyces</i> spp.
Cronobacter sakazakii	Pasteurella spp.	Coprococcus catus	Paenibacillus spp.	Issatchenkia orientalis
<i>Curvibacter</i> spp.	<i>Porphyromonas</i> spp.	<i>Corynebacterium</i> spp.	<i>Parvimonas micra</i>	
Delftia spp.	Prevotella spp.	Dermabacter hominis	Peptoniphilus spp.	Protist
Dialister spp.	Proteus spp.	Dietzia spp.	Peptostreptococcus spp.	Plasmodium spp.

## Order Information:

Product*	Application	Content	Order No.
SepsiTTest™-UMD	Broad-range applications (fluids, tissues, swabs), manual DNA extraction protocol	24 reactions	U-010-024
		48 reactions	U-010-048
UMD-SelectNA™	Broad-range applications (fluids, tissues, swabs), semi-automated DNA extraction protocol	24 reactions	U-050-024
		48 reactions	U-050-048
Add-On 10	Add on kit for the extraction of pathogen DNA for volumes up to 10ml	24 reactions	U-120-024
		48 reactions	U-120-048
Micro-Dx™	Broad-range applications (fluids, tissues, swabs), fully-automated DNA extraction protocol	24 reactions	U-200-024
		48 reactions	U-200-048

\* Not available in the U.S.

Escanéame



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