

# Sepsis

(Multiplex Tandem PCR)

MICROBIOLOGICAL  
LABORATORY



Now with Extra Pathogens

## Pathogens Covered

1. E.coli
2. S.agalactiae
3. S.aureus
4. K.pneumoniae
5. Enterobacteriaceae
6. E.faecium
7. E.faecalis
8. Staphylococcus spp
9. S.pneumo
10. P.aeruginosa
11. P.mirabilis
12. A.baumannii
13. CMV
14. C.trachomatis
15. Ureaplasma
16. Listeria monocytogenes
17. Streptococcus spp

## Drug Resistance Markers

18. pan-TEM
19. pan-SHV
20. CTX-M group1
21. mecA
22. CMY/DHA
23. KPC
24. VIM/NDM-1
25. oxa1
26. Vancomycin A/B
27. oxa48
28. CTX-M group9

1. Salmonella spp
2. Mycobacterium tuberculosis complex
3. Mycobacterium tuberculosis (Mpt64)
4. Toxoplasma gondii
5. Cryptococcus neoformans
6. Candida sp. (C.albicans and C. glabrata)

## Test Details

**MRSA**

Test Name : Sepsis

Test Code : 90308

Methodology : Multiplex Tandem PCR

Specimen : Whole Blood(EDTA)

Volume : 2mL

Sepsis is an inflammatory response to infection by bacteria /fungi, the estimated incidence of sepsis reaching approx.0.3%. The mortality of sepsis or even more, septic shock is still very high. This places sepsis/septic shock to major cause of death in the ICU world wide. Accordingly, there is an urgent need to reduce the uncertainty & time of today's blood culture diagnosis for pathogens to reduce morbidity & mortality of patients.

Molecular Biological methods, particularly POLYMERASE CHAIN REACTION(PCR), are generally accepted as a promising means of culture-flanking methods for early sepsis diagnosis, mostly because of its rapidity of time-to-result & independence of the growth of strains. SEPSIS PANEL is a direct blood PCR test, designed for the needs of fast routine sepsis diagnosis.<sup>3</sup>

**The** Right Patient with  
Right drug at  
Right dose at  
Right time

**Same Day  
Result**

## Dossier

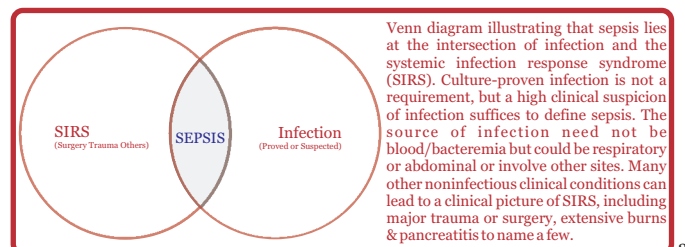
### Rapid Dx Intervention Antibiotic Resistance G(-) Sepsis

153 Patients Pre-Rapid (81hrs) Dx vs. 112 with Rapid (23 hrs) Dx

**With  
Rapid  
Dx**

Time to Optimal Therapy	3.5x	Faster
Length of Stay	34%	Shorter
Mortality	>50%	Lower

Adapted from data presented in :  
Perez K et al.J Infect 2014, 69 (13) : 216-225



## Reference

- <http://www.ausdiagnostics.com/qilan/ADMainGeneList.jsp?ProductID=1589&CatNo=3109601.1>  
Journal ASM.org/Laboratory Diagnosis of Sepsis? No SIRS, Not just yet.html .2  
Journal of Medical Microbiology (2013), 62, 223-231 DOI 10.1099/jmm.0.050385-0 .3

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