Technical Sheet for SeptiCyte® RAPID CE-IVD

The SeptiCyte® RAPID (SB3020C) test is a gene expression assay using reverse transcription polymerase chain reaction to quantify the relative expression levels of host response genes isolated from whole blood collected in either the PAXgene® Blood RNA Tube or an EDTA blood tube. The SeptiCyte® RAPID test is used in conjunction with clinical assessments and other laboratory findings as an aid to differentiate infection-positive (sepsis) from infection negative systemic inflammation in patients suspected of sepsis. The SeptiCyte® RAPID test generates a score (SeptiScore®) that falls within one of four discrete Interpretation Bands based on the increasing likelihood of infection-positive systemic inflammation. SeptiCyte® RAPID is intended for in-vitro diagnostic use on the Biocartis Idylla™ System.

Specimen requirements

Sample Type

The test is for processing a 0.9 ml whole blood collected in PAXgene® blood RNA

tubes or 0.24 ml whole blood collected in K2/K3 EDTA blood collection tubes

Supported blood collection

tubes

PAXgene® blood RNA tubes or K2/K3 EDTA blood collection tubes

Total turnaround time

Total time 60-65 minutes

Hands-on time Approx. 2 minutes (excluding sample collection/handling)

Result reporting

SeptiScore® (0 – 15, increasing value indicates higher sepsis probability),

Test result Interpretation band (Band 1 - 4, higher band indicates increased sepsis

probability)

Quality status Validity of test result, sample processing control status

<u>Performance</u>

Analytical sensitivity LOD of 25 white blood cells per μ L of whole blood

Reproducibility

The standard deviation of the SeptiScore® was below 0.35 for all sample pools for

all sources of variation (operator, lot, instrument).

Accuracy High correlation between SeptiCyte® RAPID and FDA-cleared

comparator test (r^2 = 0.94).

Sepsis probability Band 1 < 10%; Band 4 > 80%, based on consensus diagnosis

Test sensitivity 94%, based on Band 1 threshold

Test specificity 90%, based on Band 4 threshold

SeptiCyte® RAPID Publications

Check our website: https://www.septicyte.com/septicyte-technology/ for complete bibliography

including latest publications.

