

# Samsung IB B·R·A·H·M·S PCT

Smart Infection Diagnosis

The Samsung IB B·R·A·H·M·S PCT is a rapid point-of-care (POC) immunoassay for the *in vitro* quantitative determination of Procalcitonin (PCT) in EDTA whole blood and plasma.

- Quantitative results
- Using whole blood – no centrifugation and other pretreatment
- Fast and fully automated – calibration via QR code, no extra tests necessary
- Long term storage at 2-8 °C; 30 days at room temperature
- Portable small device (rechargeable battery)
- Ideal for emergency departments, critical care units, physician offices, and other clinical settings where immediate availability of result is required

Samsung LABGEO IB10  
Immunoassay Analyzer



Transfer results  
directly to LIS, PC and/or  
mobile phone



### Clinical Interest

Assessment and evaluation of critically ill patients and patients with lower respiratory tract infections (LRTI) to aid in

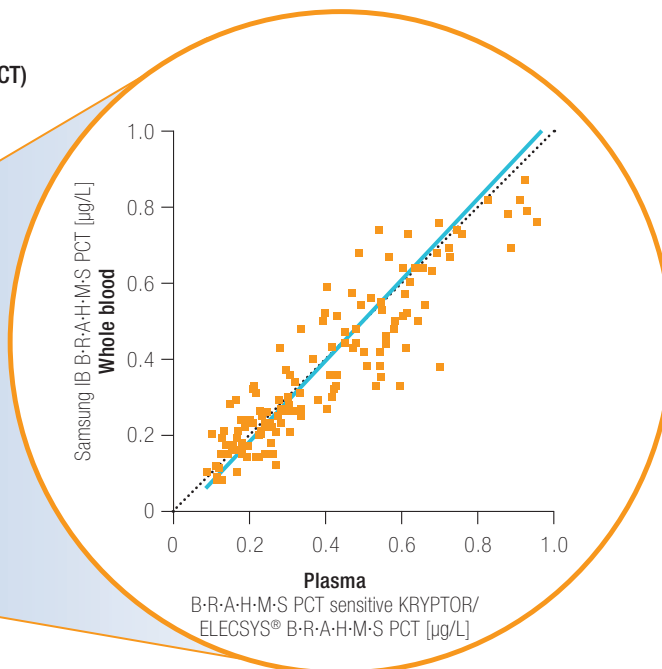
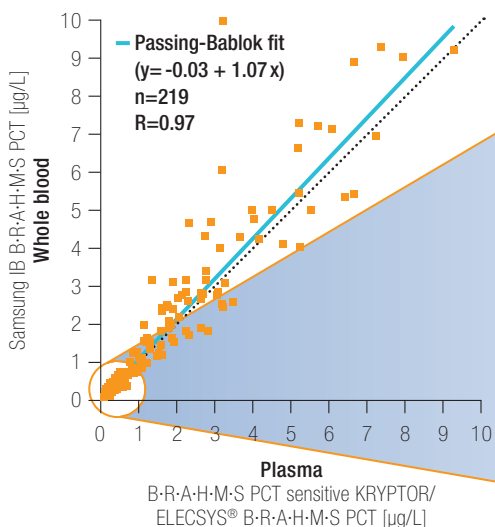
- early diagnosis of clinically relevant bacterial infection
- severity assessment and outcome prognosis of systemic bacterial infection and sepsis
- identification of patients that would benefit from antibiotic treatment
- monitoring and assessment of successful antibiotic therapy

### Ease of Handling

<b>Sample type</b>	EDTA whole blood and plasma
<b>Time to result</b>	20 min
<b>Measuring range</b>	0.08~10.0 µg/L
<b>Detection limit</b>	0.08 µg/L
<b>Limit of quantification</b>	0.12 µg/L
<b>No High Dose Hook</b>	up to 10,000 µg/L

## Method Comparison

Correlation between Samsung IB B-R-A-H-M-S PCT and reference (B-R-A-H-M-S PCT™ sensitive KRYPTOR™ / ELECSYS® B-R-A-H-M-S PCT)



## Strong Correlations

Reference Plasma vs. Samsung IB B-R-A-H-M-S PCT Plasma

n	Passing-Bablok fit	Correlation (r)
217	$y = -0.03 + 1.03x$	0.97

Samsung IB B-R-A-H-M-S PCT Whole Blood vs. Samsung IB B-R-A-H-M-S PCT Plasma

n	Passing-Bablok fit	Correlation (r)
208	$y = -0.00 + 0.97x$	0.98

## Excellent Precision

Reproducibility		
Sample	Mean [ $\mu\text{g/L}$ ]	Within-run CV in %
1	0.45	12.8
2	1.65	14.3
3	4.54	14.3

Samsung IB B-R-A-H-M-S PCT is CE marked.

## Products

Article number	Description
IVR-IB05	<b>Samsung LABGEO<sup>®</sup> Troponin I Test</b> Troponin I (10 tests per box)
IVR-IB06	<b>Samsung LABGEO<sup>®</sup> CHF Test</b> NT-proBNP (10 tests per box)
IVR-IB07	<b>Samsung LABGEO<sup>®</sup> CHF Plus Test</b> Troponin I/NT-proBNP (10 tests per box)
IVR-IB08	<b>Samsung LABGEO<sup>®</sup> Cardiac 3-in-1 Panel Test</b> Troponin I/CK-MB/Myoglobin (10 tests per box)
IVR-IB09	<b>Samsung LABGEO<sup>®</sup> D-Dimer Test</b> D-Dimer (10 tests per box)
IVR-IB11	<b>Samsung LABGEO<sup>®</sup> SOB Cardiac 3 Panel Test</b> Troponin I/NT-proBNP/D-Dimer (10 tests per box)
IVR-IB12	<b>Samsung LABGEO<sup>®</sup> beta-hCG Test</b> beta-hCG (10 tests per box)
IVR-IB15	<b>Samsung LABGEO<sup>®</sup> TSH Test</b> TSH (10 tests per box)
<b>IVR-IB18</b>	<b>Samsung IB B-R-A-H-M-S PCT</b> Procalcitonin (10 tests per box)

Thermo Fisher Scientific is the global collaboration partner of Samsung for commercialization and co-development of innovative solutions in the POC testing market. Together we provide excellent expertise in clinical diagnostics to fulfill customer needs and improve patient management.

## Clinical Diagnostics

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