

**Sepsis**

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# **LIAISON<sup>®</sup> BRAHMS PCT<sup>®</sup> II GEN**

**Fast, high sensitive and reliable assay  
for bacterial infection and sepsis**



**DiaSorin**

The Diagnostic Specialist

FOR OUTSIDE THE US AND CANADA ONLY

# Sepsis

## LIAISON® BRAHMS PCT® II GEN

Procalcitonin (PCT) is a biomarker used for the diagnosis of bacterial infection and sepsis. PCT is a prohormone for calcitonin, and is secreted by various cell types in response to infection and inflammation. PCT as biomarker of bacterial infections is used in a variety of setting, including primary care, emergency room and intensive care, where PCT can be used to guide and monitor antibiotic treatment.

PCT serum concentration in healthy people is generally low and below 0.1 ng/mL. PCT serum concentrations are elevated in clinically relevant bacterial infections and continue to rise with the increasing severity of the disease. Rapidly declining PCT values indicate that infection is under control<sup>(1)</sup>.

### Increased PCT values - Best indicator for the severity of infection and organ dysfunction

Diagnosis	PCT [ng/mL]	Antibiotic use		
		RTI	ICU Trauma	Co - morb. COPD
Septic shock	100			
Severe sepsis	10			
Sepsis	2		▲	
Pneumonia	1		Yes	
Bronchitis	0.5	Yes	Yes	
COPD	0.25	Yes	No	Yes
Healthy	0.1	No	No	Yes
	0.01	No		No

COPD= Chronic Obstructive Pulmonary Disease  
 ICU= Intensive Care Unit  
 RTI= Respiratory Tract Infection

## LIAISON® BRAHMS PCT® II GEN Fast and highly sensitive assay

Time to first result: 16 min

Functional assay sensitivity: 0.04 ng/mL

Consider non-bacterial differential diagnosis

Adapted from Christ-Crain M & Müller B, Swiss Med Wkly 2005, 135: 451-460

### Main features of LIAISON® BRAHMS PCT® II GEN

Assay format:	CLIA quantitative sandwich assay on serum and plasma
Measuring range:	0.02 – 100 ng/mL (automatic dilution available for samples > 100 ng/mL)
Calibration stability:	8 weeks
Integral on board stability:	12 weeks
Repeatability:	CV% <5%
Reproducibility:	CV% <15%
Correlation:	Excellent correlation (r= 0.99) with BRAHMS PCT® sensitive KRYPTOR®
Number of tests:	100

#### Ordering information

LIAISON® BRAHMS PCT® II GEN	code 318040
LIAISON® Control BRAHMS PCT® II GEN	code 318041
LIAISON® BRAHMS PCT® II GEN Sample diluent	code 318043 (for LIAISON® XL only)

AVAILABLE ON **LIAISON®** SYSTEMS

(1) Meisner M, Procalcitonin – Biochemistry and Clinical Diagnosis, ISBN 978-3-8374-1241-3, UNI-MED, Bremen 2010

Product availability subject to required regulatory approval



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