

Calprotectin

An early marker for the detection of the inflammatory response to infections^{1,2}

The value of calprotectin in infection

- Differentiates between bacterial and viral infections^{3,4}
- Predicts serious events in critically ill patients^{2,5}
- Superior to traditional biomarkers for prediction of severe events in clinical sepsis⁵
- Calprotectin levels can indicate current and future severity in COVID-19 patients^{6,7}



Severe events in infections

Calprotectin has shown to be a useful biomarker for prediction of early severe events in sepsis. A recent study has shown that the level of plasma calprotectin is significantly higher in sepsis patients who subsequently developed severe events. This study also indicates that plasma calprotectin performs better than traditional biomarkers such as Procalcitonin (PCT), neutrophil-lymphocyte-ratio and C-reactive protein (CRP) for prediction of severe events in patients with sepsis⁵. Recent studies have shown that calprotectin levels strongly implicate neutrophils as active perpetrators of inflammation and respiratory compromise in COVID-19^{6,7}, which support calprotectin use in early prediction of severe events in infections.

Other calprotectin advantages

- Helps to identify which patients need antibiotic treatment^{2,3}
- Differentiates between sepsis and trauma⁸
- Can be used in patients with liver disease and pediatric population⁹⁻¹¹
- Can be used in patients treated with IL-6 inhibitors and TNF¹²⁻¹³

Gentian Calprotectin GCAL[®] Immunoassay - early access to accurate results

GCAL[®] can be used for early detection and assessment of the inflammatory response to severe infections, where it is critical to get access to the results as soon as possible. Since GCAL[®] is a Particle-Enhanced Turbidimetric Immunoassay (PETIA), the assay is rapidly performed in only 10 minutes.

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Immunoassay performance

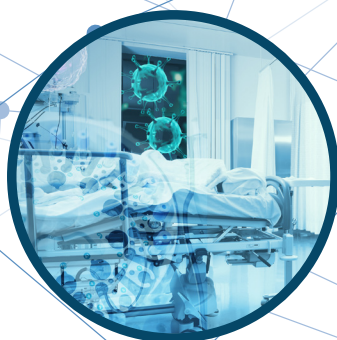
GCAL[®] is a Particle-Enhanced Turbidimetric Immunoassay (PETIA) that is rapidly performed in only 10 minutes. The assay can be applied on a wide range of automated clinical chemistry analysers. GCAL[®] is CE-marked.

Gentian Calprotectin Immunoassay Performance	
Sample type	Li-Heparin plasma, Serum
Assay type	PETIA
Format	Liquid reagents, ready to use
Precision (sample >1 mg/L)*	Total CV 4.0 %
LoQ*	0.3 mg/L
Security zone*	Up to 95 mg/L
Measuring range*	0.4 - 20 mg/L
Calibration stability*	4 weeks

*Instrument dependent results achieved on Architect c4000 during validation.

Product range

Product no.	Product	Content
1201	Gentian Calprotectin Reagent Kit	R1 54 ml + R2 9 ml
1219	Gentian Calprotectin Control Kit	2 x 1 ml
1251	Gentian Calprotectin Calibrator Kit	6 x 1 ml



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