## **GCAL**<sup>®</sup>



# Application Note for the Gentian Calprotectin Immunoassay on the DxC 500 $AU^1$

For in vitro diagnostic use by laboratory professionals.

This document describes the instrument specific settings and performance of the product on the instrument above. For assay information, please refer to the IFU available on <u>www.gentian.com</u>.

#### Assay kit components

Products available				
Gentian GCAL <sup>®</sup> Calprotectin Reagent Kit	REF 1201			
<ul> <li>R1 Assay Buffer (54 mL)</li> </ul>				
<ul> <li>R2 Immunoparticles (9 mL)</li> </ul>				
Gentian GCAL <sup>®</sup> Calprotectin Reagent Kit S	REF 1202			
<ul> <li>R1 Assay Buffer (30 mL)</li> </ul>				
<ul> <li>R2 Immunoparticles (5 mL)</li> </ul>				
Gentian GCAL <sup>®</sup> Calprotectin Calibrator Kit (6 levels	REF 1251			
x 1 mL)	NET 1251			
Gentian GCAL <sup>®</sup> Calprotectin Control Kit (2 levels x	REF 1219			
1 mL)	1213			

All products are ready for use.

#### **Reagent stability**

The in-use stability of the Gentian GCAL® Calprotectin Reagent Kit was found to be at least 4 weeks in an on board study based on the CLSI guideline EP25 [1]. If the instrument remains unused for more than a week, please ensure the reagents are gently inverted every 7 days.

#### **Calibration stability**

The calibration curve stability of the Gentian GCAL $^{\odot}$  Calprotectin Calibrator Kit was found to be at least 1 week in a study based on the CLSI guideline EP25 [1].

#### **Performance characteristics**

All results refer to validation of the Gentian GCAL<sup>®</sup> Calprotectin Immunoassay on one instrument site with one lot of reagents, unless otherwise stated.

#### Measuring range

The measuring range of the Gentian GCAL® Calprotectin Immunoassay was found to be 0.48-19.16 mg/L. The exact measuring range is specific to the calibrator lot, please refer to the analytical value sheet available on <u>www.gentian.com</u>.

#### **Analytical sensitivity**

The analytical sensitivity of the Gentian GCAL<sup>®</sup> Calprotectin Immunoassay was tested in a study based on the CLSI guideline EP17 [2]. The limit of quantification (LoQ) is defined as the lowest concentration of an analyte that can be reliably detected and at which the total error meets the requirements for accuracy. The LoQ of the Gentian GCAL<sup>®</sup> Calprotectin Immunoassay was found to be 0.45 mg/L for lithium heparin plasma and 0.43 mg/L for serum.

#### Linearity

The linearity range of the Gentian GCAL<sup>®</sup> Calprotectin Immunoassay was found to be 0.41-21.39 mg/L in lithium heparin plasma and 0.38-20.25 mg/L in serum in a linearity study based on the CLSI guideline EP06 [3].

#### Security zone

No antigen excess effect in samples below 88 mg/L was observed for the Gentian GCAL<sup>®</sup> Calprotectin Immunoassay in a study based on the CLSI guideline EP34 [4]. Samples with a calprotectin concentration above the highest calibrator and up to 88 mg/L return a value above the highest calibrator and are flagged for rerun with automatic dilution.

#### Precision

Precision of the Gentian GCAL<sup>®</sup> Calprotectin Immunoassay was tested in a 3-day precision study based on the CLSI guideline EP05 [5]. 2 lithium heparin plasma (P1 and P1) and 2 serum (S1 and S2) pools and 2 controls (CL, CH) were measured 5 times with 5 replicates (n=25).

Sample ID	Mean [mg/L]	Within run CV [%]	Between run CV [%]	Total CV [%]
PR-S1	0.90	4.74	1.10	4.86
PR-S2	8.21	0.82	1.00	1.29
PR-P1	5.18	1.15	0.98	1.51
PR-P2	13.62	1.23	0.54	1.35
CL	0.99	3.21	0.00	3.21
СН	9.98	0.74	0.22	0.77

#### Recovery

Recovery was analysed by spiking a low analyte sample with a high analyte sample according to Westgard [6]. The Gentian GCAL<sup>®</sup> Calprotectin Immunoassay had a recovery of 101-114 %.

#### Analytical specificity and limitations

Interference was tested in a study based on the CLSI guideline EP07 [7]. As the antibodies in the Gentian GCAL<sup>®</sup> Calprotectin Immunoassay are of avian origin, there is no interference due to Rheumatoid Factor in the samples [8]. No clinically relevant difference was detected at the tested interferent concentrations.

Potential interferents	Concentration with no interference
Haemoglobin	2.5 g/L
Intralipid	10 g/L
Bilirubin	0.6 g/L

#### Instrument variation

Results obtained with the Gentian GCAL<sup>®</sup> Calprotectin Immunoassay were compared using Passing-Bablok regression with results from the Cobas c501 instrument (Roche) in a study based on the CLSI guideline EP09 [9].

n	Range of samples [mg/L]	Term	Coefficient	95% Cl
		Intercept	0.01	[-0.08, 0.07]
50	0.42-20.07	Slope	1.10	[1.09, 1.13]
		R <sup>2</sup>	1.00	







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#### References

- CLSI. Evaluation of Stability of *In Vitro* Diagnostic Reagents; Approved Guideline. CLSI document EP25-A. Wayne, PA: Clinical and Laboratory Standards Institute; 2009.
- CLSI. Evaluation of Detection Capability for Clinical Laboratory Measurement Procedures; Approved Guideline – Second Edition. CLSI document EP17-A2. Wayne, PA: Clinical and Laboratory Standards Institute; 2012
- CLSI. Evaluation of Linearity of Quantitative Measurement Procedures. 2<sup>nd</sup> ed. CLSI guideline EP06. Clinical and Laboratory Standards Institute; 2020
- CLSI. Establishing and verifying an extended measuring interval through specimen dilution and spiking. 1<sup>st</sup> ed. CLSI guideline EP34. Wayne, PA: Clinical and Laboratory Standards Institute; 2018.
- CLSI. Evaluation of Precision of Quantitative Measurement Procedures; Approved Guideline – Third Edition. CLSI document EP05-A3. Wayne, PA: Clinical Laboratory Standards Institute; 2014
- 6. Westgard JO. Basic Method Validation, 3rd Edition. 2008; ISBN13: 9781886958258
- CLSI. Interference Testing in Clinical Chemistry. 3rd ed. CLSI guideline EP07. Wayne, PA: Clinical Laboratory Standards Institute; 2018.
- 8. Larsson A, et al. Poultry Science 1993;72:1807-12
- CLSI. Measurement Procedure Comparison and Bias Estimation Using Patient Samples. 3rd ed. CLSI guideline EP09c. Wayne, PA: Clinical and Laboratory Standards Institute; 2018.

#### Modification from the previous version

Harmonised analytical measuring range across Beckman
 Coulter instruments

#### Date of issue

2024-11-26



### Instrument Settings for the Gentian GCAL<sup>®</sup> Calprotectin Immunoassay on the DxC 500 AU<sup>1</sup> (serum/plasma)

Reagent ID: 254

	TE	EST CONFIGURATION & CH	HEMISTRY DETAILS	;		
Assay Name	Test Rev		Discipline	e Ch	iemistry	
Test ID	GCAL*		Calculate			
LIS Code	GCAL*		Result Ty	rpe Qu	uantitative	T
UNITS AND RANGE S	ETTINGS					Serum***
Use Settings from	Serum***▼	Units mg/L ▼	Dec	imal Places x.x	(X 🔻	
Test Kind	General 🔻	Revision 01				
Reagent Name	GCAL*	Reagent ID 254				
	ABB CAL1G Name	Parameter Long	Name	tin C97497 CAL1G s	serum	
		GENERAL PARA	METERS			
SAMPLE VOLUME	Sample Volume 3.0 µL	Dilution 0 V µL	REACTIO	ON OD LIMIT	Low -2.0000	High 3.0000
	Predilution Rate 1		REACTIO	N BLANK OD LI	MIT	
REAGENT VOLUME	R1-1 150 µL	Dilution 0 µL			st: Low -2.0000 st: Low -2.0000	High 2.5000 High 2.5000
	R2-1 22 µL	Dilution 0 µL	ANALYTI	CAL MEASURIN	G RANGE	
WAVELENGTH					Low 0.48	High 19.16
WAVELLINGTH	Primary 660 nm	Secondary None nm	MANUFA	CTURER FACTO		
METHOD	END ▼		REAGEN	T ONBOARD ST		В 0
					28 Days	0 Hours
REACTION SLOPE	+			UENCE CHECK		
MEASURING POINT					Perform LIH check	
	Point 1: First 9 Point 2: First	Last 15 Last	Lipemia Icterus		T	
		Last	Hemolysi	s	<b>T</b>	
Linearity Limit	%					
Lag Time Check	Perform Lag Tin	ne Check				
Lag Time Check	Perform Lag Tin		RAMETERS			
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		CALIBRATION PA		Factor ▼ 0	3 Unit 4 None	Factor 4 ▼ 0
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Disclaimer: The specific settings shown below is what used to validate the application on the specific instrument. For any instrument specific settings, please refer to the instrument manual. Please be aware that illustrations or settings might be affected in case of an instrument software update.

\* User defined

\*\* Lot specific. See analytical value sheet available on www.gentian.com

\*\*\*Valid for both serum and lithium heparin plasma