General Information

Intended use:

Calprotectin Turbilatex is a latex turbidimetric assay for the quantitative detection of calprotectin (hCp) in human stool samples.

This assay is simple and widely applicable. Test results aid in a presumptive diagnosis of IBD patient with inflammation and from irritable bowel syndrome (IBS).

For professional in vitro diagnostic use only.

Calprotectin Turbilatex can be performed on every open chemistry analyser. Please follow the subsequent instructions in order to assure performance characteristics as describes in the instructions for use. This instruction has been validated by CerTest BIOTEC S.L. Laboratories.

Additionally, please read the "Instructions for use" for instructions on operating and programming user defined test.

Reagents:

Materials provided by CerTest BIOTEC:

Reagents	Quantity	Code
Turbidimetric reagents (R1 & R2) 200 Det/kit	R1: 2 vials, 2x27 mL R2: 1 vial, 1x8 mL	TL-022CP01 TL-022CP02
Auxiliary Reagents		
Calibration kit	Calibrator: 6 vials, 6x1 mL.	TL-022CP70, TL-022CP71, TL-022CP72, TL-022CP73, TL-022CP74, TL-022CP75
Controls kit	Control C1, 2 vials, 2x1mL/vial. Control C2, 2 vials,2x 1 mL/vial.	TL-022CP08 TL-022CP09
Sample diluent kit	4 vials, 4x125 mL/vial	TL-022CP03E
Sample dilutions vials	1x2 mL/vial 1x2 mL/vial	MST-0006MC MST-0008C

Preparation of reagents:

R1 and R2 are ready to use.

Calibrators are ready to use.

Controls are ready to use

Storage and stability

Kit components must be stored at temperature indicated on the label. Do not freeze.

Reagents are stable up to the expiration date printed on the label, always considering that reagent containers must be properly closed to avoid any contamination, must be kept away from the sunlight and conserved at temperature indicated on the label of each reagent.

Specimen:

Collect enough quantity of human stool samples. These samples should be collected in clean and dry containers (no preservatives or transport media). The samples can be stored in the refrigerator (2-8°C) for 7 days prior to testing. For longer storage, maximum 6 months, the specimen must be kept frozen at -20°C. In this case, the sample will be totally thawed, and brought to room temperature (15-30°C) before testing. Freezing and thawing cycles are not recommended. Homogenise stool samples as thoroughly as possible prior to preparation.

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Use Calprotectin Turbilatex stool collection tubes for sample collections described the instructions for use.

Assay procedure

Application parameter set up:

Specific analyzers settings for Calprotectin Turbilatex must be programmed onto the analyzer, see below. For instructions, consult the ADVIA 2400 (Siemens) analyzer manual and instructions for use provided with the kit.

Loading of reagents:

Load reagents according to the ADVIA 2400 (Siemens) analyzer manual.

Calibration curve establishment:

A 6 point calibration curve can be established in ADVIA 2400 (Siemens) analyzer. For instructions consult analyzer manual.

Calibration stability:

Calibrate the system at least once a month is extremely recommended. Recalibrate the system when reagent lot is change or when the controls are out of the assigned range given in the control label and CoA.

QC controls:

Calprotectin Turbilatex controls C1 and C2 must be assayed each day before running patient fecal sample extract to validate the calibration curve. The controls have assigned value ranges indicated on the label and certificate of analysis supplied. The control measurements must be within the indicated value range to obtain valid results for patient fecal extract. If the control values are out of range, follow next procedures: 1) Repeat QC control measurement, 2) Repeat calibration measurement.

Results:

The results are evaluated automatically by the analyzer and presented in μg hCp/g of stool.

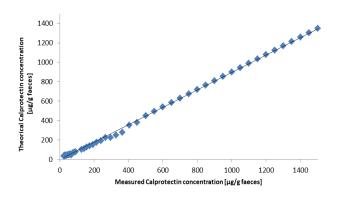
Application Note Calprotectin Turbilatex, ADVIA 2400, Siemens (AN-Cp-ADVIA 2400.EN rev 2019.01.17)

Performance characteristics

The following results have been obtained during the validation of Calprotectin Turbilatex on the ADVIA 2400 (Siemens) analyzer.

Linearity:

Calprotectin Turbilatex on ADVIA 2400 (Siemens) analyzer using calibrator kit is linear in the calibration range of 0-1500 μ g hCp/g of stool.



Measuring range:

Calprotectin Turbilatex assay measuring range is 20-8000 μg hCp/g of stool on the ADVIA 2400 (Siemens) analyzer. Samples higher concentrated than 1500 μg hCp/g of stool must be diluted for proper quantification.

Prozone effect

Using the reported parameters, no hook effect was observed up to 8000 μ g hCp/g of stool. Samples with calprotectin concentration of 8000 μ g hCp/g of stool give a typical positive result >1500 μ g hCp/mL.

Detection limit

Limit of detection (LOD): 15 μ g hCp/g of stool. The lower limit of detection of Calprotectin Turbilatex was determined on 20 samples and 2 sample replicates as the mean value + 2 SD.

Limit of quantification (LOQ): 20 \mug hCp/g of stool. The lower limit of quantification is defined as the lowest actual amount of analysis that can be reliably detected; imprecision is < 20% as CV% on the ADVIA 2400 (Siemens) analyzer.

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Precision

Calprotectin Turbilatex was tested with three different controls levels.

	Low	Medium	High
	(50 µg/g)	(200 µg/g)	(750 µg/g)
N	20	20	20
Mean (µg/g)	49.6	204.5	739.9
SD (µg/g)	2.2	8.6	23.1
CV (%)	4	4	3

Method comparison

Results obtained with Calprotectin Turbilatex on ADVIA 2400 (Siemens) analyzer were compared with a commercial immunoassay (Calprest[®], Eurospital).

	Sensitivity	Specificity
Calprotectin Turbilatex vs Calprest®	94%	>99%

Shipping damage

Please notify your distributor, it this product was received damaged.

Symbols key

IVD	For in vitro diagnostic use only	Ť	Keep dry
Ĩ	Consult instructions for use	X	Temperature limitation
REF	Catalogue number	LOT	Lot number
22	Use by	***	Manufacturer
Σn	Contains sufficient for <n> test</n>	DIL	Sample diluent
紊	Keep out of the sunlight		

Manufacturer

CERTEST BIOTEC

Pol. Industrial Río Gállego II,Calle J, № 1, 50840, San Mateo de Gállego, Zaragoza (SPAIN) www.certest.es

NOTES

Please refer to the instruction for use for the detailed information about the test on the following: Synthesis; Principle; Precautions; Reagents; Specimen collection; Interpretation of results.



ADVIA 2400 (Siemens) / Application parameters

Test information:

Std. No	6
R1	150 µl
Sample	3 µl
R2	15 µl

Reaction parameters:

Reaction type	Endpoint
Primary Wavelenght	451 nm
Secondary Wavelenght	None
Direction	Increase
Reagent Blank Lecture	21-22 cycle
Final Lecture	40-41 cycle
Reaction Time	10 min
Linear range	0-1500 μg/g

Linear
0 µg/g
50 µg/g
100 µg/g
250 µg/g
750 μg/g
1500 µg/g

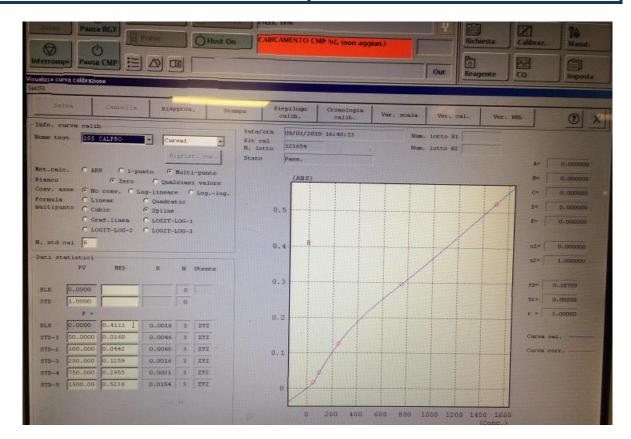
Steps:

Addition R1 Addition Sample Incubation 5 min Addition R2 Blank Lecture Incubation 5 min Final lecture

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