

Unique in
Speed, Quality
and Flexibility



Immunoturbidimetric Faecal Calprotectin Assay

BÜHLMANN fCAL® turbo

Faecal Calprotectin result within 10 minutes

- Integrate faecal samples into routine
- Streamline your workflow
- Use random access and save hands-on time
- Measuring Range from 20 to 8000 $\mu\text{g/g}$

Simplify and improve faecal extraction with CALEX® Cap

- Fast and efficient extraction
- Prefilled CALEX® extraction device
- High quality and minimal exposure to sample
- Total analysis time (TAT) of 30 minutes

Use the established reference

- Proven record in stable standardisation
- Cut-off for IBD diagnosis and monitoring
- Clinically validated in over 50 scientific publications



 **BÜHLMANN**

 **alpha laboratories**
supplying quality to science

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Faecal Calprotectin Result within 10 minutes

BÜHLMANN fCAL® turbo, the turbidimetric immunoassay, is a flexible solution to be applied on most clinical chemistry analysers.

The technology implements a further milestone in faecal calprotectin quantification. It allows very rapid and flexible random access use, providing the ideal solution for high throughput applications in the routine laboratory. The fCAL turbo reduces the hands-on time dramatically and enables rapid reporting of calprotectin results from human stool samples.

Centrifuged faecal extracts derived from the unique BÜHLMANN extraction device CALEX® Cap can be applied directly on your existing analyser. No special equipment is required. The analysis itself takes ten minutes and covers a range from 20 to 8000 µg/g. Retesting of very high concentrated samples can be done automatically.

BÜHLMANN continues to expand the list of possible applications, but there are more than 25 available including:

Available application notes	Siemens	Advia 1650/1800, Advia 2400, Advia XPT, Atellica, Dimension Vista
	Roche	Cobas6000 (c501), Cobas8000 (c702), Cobas c111
	Abbott	Architect (c series), Alinity
	Beckman	AU series, DxC
	Mindray	BS-380, BS-200E, BS-400
	Thermo Fisher	Konelab, Indiko
	Ortho	Vitros 5600

Product Description	
Method	Particle-enhanced turbidimetric immunoassay (PETIA)
Sample type	Faecal extracts
Kit format	2 reagents (wedge bottles for direct loading on many platforms) Reagents last for ~ 200 tests (platform dependant)
Sample preparation	CALEX® Cap extracts can be used directly without additional dilution
Reagent on board	Stable for at least 60 days
Calibration	Stable for up to 60 days
Calibration range	0-2000 µg/g
Measuring range	20-8000 µg/g
Sample volume	~10 µl centrifuged faecal extract (1:500)
Time to result	~10min CALEX® Extraction ~ 20 minutes

Faecal extracts on Clinical Chemistry Platforms

Centrifuged extracts are free from undigested food particles. The bacterial load is reduced by ~95% and results in a comparable level to that found in routine urine samples from UTI patients.

Carry-over effects in the high through-put analysers is minimal and has been determined as <0.5%. Serum contaminations can be excluded.

Turbidimetric reagents are free of critical compounds. Interactions to other assays are highly unlikely and have not been observed.

For more information on the Calprotectin range, please email:
marketing@alphalabs.co.uk



Simplify and improve faecal extraction with CALEX® Cap

The CALEX® Cap is a unique device for the fast and efficient quantitative extraction of calprotectin in stool specimen. The prefilled tubes are ready to use. Three simple steps are required for extraction:

STEP 1: Put the pin into the faecal sample and fill the grooves completely with the matrix material.

STEP 2: Place it back into the tube, close tightly and extract by soaking and vortexing.

STEP 3: Centrifuge the extract within the CALEX® tube for 10 min.

The diluted extract (1:500) is ready to use in the turbidimetric assay. The CALEX® extraction correlates highly to the manual weighing method.

Use the established reference

The BÜHLMANN fCAL® turbo standardisation is based on the well established BÜHLMANN fCAL® ELISA, which is implemented globally in laboratories as the gold standard calprotectin assay.

■ **Trust in proven stable standardisation**
BÜHLMANN has had a constant and stable standardisation of calprotectin for more than a decade. Our long experience with the complex protein and our large network in science as well as in clinics, will guarantee a continuous quality of the assay.

■ **Established cut-off for diagnosis and monitoring**
Based on clinical experience over 10 years BÜHLMANN recommends to apply a grey zone between 80 - 160 µg/g. Levels >160 µg/g are indicative of active organic disease with inflammation in the gastrointestinal tract.

■ **Clinically proven in more than 50 publications.**
Contact us for more information.

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