

# BÜHLMANN fCAL<sup>®</sup> turbo

Immuno turbidimetric fecal CALPROTECTIN Assay



**Automation**

**Speed**

**Simple  
fecal  
preparation**

## **Automated fecal Calprotectin results**

- Streamlined Workflow & Random Access
- Full integration into your Routine Work

## **Fecal Sample Preparation with CALEX<sup>®</sup> Cap**

- Hassle free pre-Analytics
- Fully compatible with Total Laboratory Automation

## **Use the established reference**

- Proven & stable Standardization
- Established & Validated Cut-off in IBD Diagnosis & IBD Monitoring

## Fecal Calprotectin in 10 minutes

BÜHLMANN fCAL® turbo, a groundbreaking turbidimetric immunoassay, offers rapid calprotectin quantification. Compatible with most clinical chemistry analyzers, this technology allows flexible random-access use, perfect for high-throughput routines. The fCAL turbo significantly reduces hands-on time, ensuring swift reporting of calprotectin results from human stool samples.

Centrifuged fecal extracts from BÜHLMANN's CALEX® Cap can be applied directly to your existing analyzer, requiring no special equipment. The results, spanning 20 to 8000 µg/g, takes only ten minutes, with automatic re-testing for highly concentrated samples.

Available application notes	Siemens	Advia 1650/1800, Advia 2400, Advia XPT, Atellica CH 930
	Roche	Cobas c501/c502, Cobas c701/c702, Cobas Pro c503, Cobas Pure c303
	Abbott	Architect (c series), Alinity
	Beckman	AU series (AU400/640), AU480, AU680, AU5800, DxC 700 AU, DxC 600/800
	Mindray	BS-200E, BS-240/ 240 Pro, BS-380, BS-400
	Thermo Fisher	Konelab30i, Indiko/Indiko Plus
	Ortho	Vitros 5600
	The Binding Site	Optilite
	Horiba ABX	Pentra 400
	BioSystems	BA200

The analyzers mentioned in the above table are registered trademarks held by the corresponding manufacturers.

### PRODUCT DESCRIPTION

Method	Particle-enhanced turbidimetric immunoassay (PETIA)
Sample Type	Fecal extracts
Kit Format	2 reagents (wedge bottles for direct loading on many platforms) Reagents last for ~200 tests (platform dependent)
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 fecal Extract (1:500)
Time to result	~10 min CALEX® Extraction ~20 min

## Fecal extracts on Clin Chem Platforms

Centrifuged extracts are devoid of undigested dietary fibers, reducing bacterial load by ~95%, comparable to routine urine samples from UTI patients.

Minimal carry-over effects (<0.5%) on high-throughput analyzers have been confirmed, excluding serum contaminations.

Turbidimetric reagents lack critical compounds, making interactions with other assays highly unlikely and unobserved.

## Simplify and improve fecal preparation with CALEX® Cap

The CALEX® Cap is a unique device for the fast and efficient quantitative preparation of calprotectin in stool specimen.

The prefilled tubes are ready to use. Three simple steps are required for preparation:

<b>STEP 1:</b>	Dip the dosing tip into the fecal sample and fill the grooves completely with the matrix material.
<b>STEP 2:</b>	Place the pin back into the tube, close tightly and extract by soaking and vortexing.
<b>STEP 3:</b>	Centrifuge the extract within the CALEX® tube for 10 min.

The resulting extract (1:500) is ready to use in the turbidimetric assay. The CALEX® Cap preparation highly correlates with the manual weighing method.

## Use the established reference

BÜHLMANN fCAL® turbo standardization is based on the gold standard BÜHLMANN fCAL® ELISA, implemented globally in laboratories.

### ▪ A trustful stable standardization of calprotectin

Our long experience with the complex protein and our large network in science and clinics guarantee a continuous quality of the assay.

### ▪ Established cut-off for diagnosis and monitoring

Based on clinical experience over 10 years and clinical studies. Application of a cut-off **80 µg/g** means higher specificity with minor reduction in specificity facilitating the diagnosis of IBD with a major improvement of cost effectiveness. To keep the indecisive grey zone to a minimum, cut-off **160 µg/g** shows an ideal trade-off for a combination of specificity and better sensitivity for the studied patient cohort.

### ▪ Clinically proven in more than 100 publications

Please, refer to our homepage or ask for reference literature.



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### BÜHLMANN fCAL® turbo Ordering Codes:

Reagent Kit (~200 tests)	B-KCAL-RSET	R1 35 mL, R2 7 mL
Calibrator Kit	B-KCAL-CASET	6 levels, 1 mL each; Ready to use
Control Kit	B-KCAL-CONSET	3 x 2 levels, 1 mL each; Ready to use



BÜHLMANN fCAL® and CALEX® are registered trademarks of BÜHLMANN in many countries.

Parts of the BÜHLMANN fCAL® kits are patent protected by:  
EP2947459(B1); US10620216(B2); AU2015261919(B2); JP6467436(B2)

Parts of the CALEX® Cap are patent protected by:  
EP2833795(B1); US9752967(B2); AU2016203121(B2); CA2997598(C); JP6307132(B2); KR10-1875862(B1)