Quantum Blue® fCAL Assays

Rapid Testing of Fecal Calprotectin in IBD Diagnosis and Monitoring





Quantum Blue® Calprotectin Assays

The Unique Values of Quantum Blue®

Rapid: The quantitative fecal calprotectin result is obtained within 12-15 minutes.

Simple: Using an easy extraction method in combination with a simple lateral flow test cassette, makes it

an ideal tool for clinicians to determine the fecal calprotectin level of patients immediately.

Reliable: BÜHLMANN Quantum Blue® fCAL assays have been shown in clinical literature to correlate highly with

endoscopic and histologic findings in IBD patients^{1,2}.

Innovative Combination of Assay and Readout Technology

Lateral Flow Technology: Quantum Blue® relies on the established lateral flow

technology.

Quantum Blue® Reader: Test line intensities are detected by state of the art image

analysis and translated into a quantitative result.

Highly Specific: Specific monoclonal antibody captures calprotectin in the

patient sample more specifically than polyclonal approaches.

Quantitative: The Quantum Blue® test result is a quantitative read-out and

lot-specific standard curves are loaded via a simple barcode

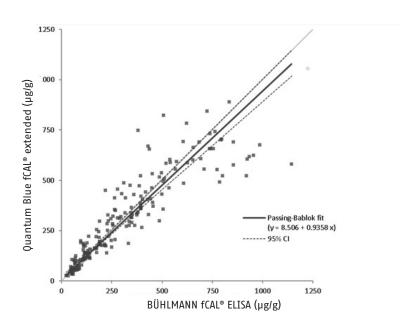
by the system camera.

Lateral flow test cassette

Quantum Blue® fCAL Assays

Test	Quantum Blue® fCAL extended	Quantum Blue® fCAL high range
Range	30 - 1000 μg/g	100 - 1800 μg/g
Time to Result	12 min	15 min
Sensitivity	<30 μg/g	<100 µg/g
Order Code	LF-CALE25	LF-CHR25
Lot-specific Control Set	B-CALE-CONSET	B-CHR-CONSET

Method Comparison to the BÜHLMANN fCAL® ELISA



All Quantum Blue® fCAL assays are standardised against the BÜHLMANN fCAL® ELISA.

4 Easy Steps to a Quantitative Result with Quantum Blue®

Easy extraction



1. The Quantum Blue® fCAL assays are fully compatible with the BÜHLMANN stool extraction device CALEX® Cap.

Quick measurement



3. Immediately after loading, the test can be started. An internal timer controls the incubation time and starts the reading process automatically.

Simple sample loading



2. A defined amount of stool extract is loaded onto the sample loading port of the test cassette.

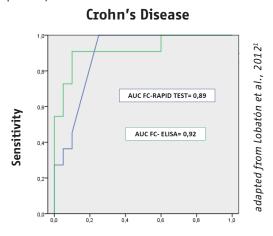
Immediate result



4. At the end, the test result is displayed in μg/g. The Quantum Blue® Reader is ready for the next sample.

Excellent Clinical Validity

The Quantum Blue® fCAL rapid test shows high sensitivity and specificity in detecting relapses in both, Ulcerative Colitis and Crohn's Disease and compares very well to the clinical performance of the BÜHLMANN fCAL® ELISA (Lobatón et al., 2012):



ROC Analysis demonstrating the accuracy of the Quantum Blue® (blue) and BÜHLMANN fCAL® ELISA (green) in predicting endoscopic activity.

1 - Specificity

Ulcerative Colitis p < 0.001 REMISSION : CF= 261,7 μg/g ACTIVITY: CF=2079,6 μg/g 2.000 n = 18 n = 19 n = 45

adapted from Lobatón et al., 2012²

Accuracy of Quantum Blue® fCAL testing to predict endoscopic Mayo score in Ulcerative Colitis.

Simplified Stool Extraction - BÜHLMANN CALEX® Cap

Stool Extraction with CALEX® Cap

All Quantum Blue® fCAL assays are fully compatible with CALEX® Cap.

Efficient: The 1:500 dilution offers excellent efficiency in extraction.

Convenient: CALEX® Cap uses a convenient and reliable sampling pin.

The device is pre-filled with extraction buffer.

Stable: Extracts remain stable for 7 days at room temperature

> or 15 days at 2-8 °C. Long-term storage at -20 °C is possible for at least 23 months, allowing for up to 4 freeze/thaw

Hygienic: CALEX® Cap is a closed system offering safe handling, storage

and transport.



CALEX® Cap

References:

Lobatón, T. et al., 2013, A new rapid test for fecal calprotectin predicts endoscopic remission and post-operative recurrence in Crohn's disease, Journal of Crohn's & Colitis ²Lobatón Ortega, T. et al., 2013, A New Rapid Quantitative Test for fecal Calprotectin Predicts Endoscopic Activity in Ulcerative Colitis, Inflammatory bowel diseases For further references please consult the BÜHLMANN Calprotectin Key Literature List.



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Parts of the BÜHLMANN fCAL® and Quantum Blue® fCAL

Parts of the BUHLMANN tCAL* and Quantum Blue* tCAL kits are patient protected by: EP2947459(B1); US10620216(B2); AU2015261919(B2); JP6467436(B2) Parts of the CALEX* Cap are patient protected by: EP2833795(B1); US9752967(B2); AU2016203121(B2); CA2997598(C); JP6307132(B2); KR10-1875862(B1)

Order Codes:

Quantum Blue® Reader Quantum Blue® fCAL extended Quantum Blue® fCAL high range CALEX® Cap

BI-POCTR-ABS LF-CALE25 LF-CHR25 B-CALEX-C50 B-CALEX-C200 B-CALEX-C500

Related Products:

Quantum Blue® Infliximab Quantum Blue® Anti-Infliximab Quantum Blue® Anti-Adalimumab

LF-TLIF10 / LF-TLIF25 LF-ADIF10 / LF-ADIF25 LF-ADAD10 / LF-ADAD25

C€-marked products