

alpha laboratories supplying quality to science

Quantum Blue® fCAL

Quantification of Faecal Calprotectin for Diagnosis and Monitoring of Inflammation in IBD

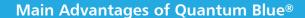


Quantitative

Rapid

Individually Packaged

Quantification of Faecal Calprotectin with Quantum Blue®



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

Simple: The test just requires a small bench top reader and is an ideal tool for clinicians to determine the faecal

calprotectin level of patients immediately.

Reliable: BÜHLMANN Quantum Blue® Calprotectin assays have been extensively proven to correlate highly with

clinical findings in IBD patients.

Innovative Solution based on Lateral Flow Technology

Lateral Flow Technology: Quantum Blue[®] relies on the established

lateral flow technology.

Quantum Blue Reader: Optical densities of test and control lines are

detected by the reader and translated into a quantitative result. Other assays can also be analysed using the Quantum Blue Reader (serum calprotectin, anti-TNF α drug and

antibody monitoring assays)

Highly Specific: Highly specific monoclonal antibodies capture

the calprotectin molecule.

Quantitative: The Quantum Blue[®] test result is quantitative.

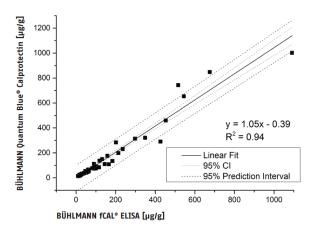
The reader analyses the intensity of the test line and compares it with the lot-specific standard curve.



Two Different Quantum Blue® fCAL Assays

Test	Quantum Blue® fCAL High Range	Quantum Blue [®] fCAL Extended Range
Range	100 – 1800 μg/g	30 – 1000 μg/g
Time to Result	15 min	12 min
Sensitivity	<100 μg/g	< 30 μg/g
Catalogue Number	LF-CHR25	LF-CALE25

Method Comparison to the BÜHLMANN fCAL® ELISA



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

Four Easy Steps to a Quantitative Result with Quantum Blue® fCAL



1. The Quantum Blue[®] Calprotectin assays are fully compatible with the BÜHLMANN stool extraction devices CALEX[®] Cap and CALEX[®] Valve.



3. Immediately after placing the cassette into the reader, the timer is started which controls the incubation time and reads the casette automatically.



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



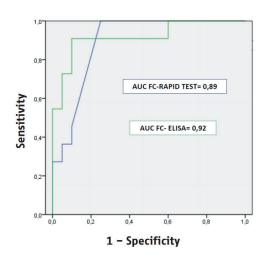
4. At the end, the test result is displayed in μ g/g. The Quantum Blue[®] Reader is ready for the next sample.



Correlation to Clinics

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

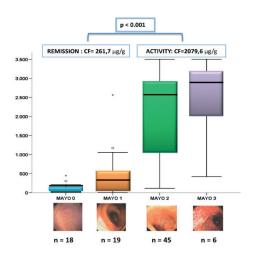
Crohn's Disease



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

Reference: Lobaton ECCO 2012, A New Rapid Test for Faecal Calprotectin Predicts Mucosal Healing in Crohn's Disease

Ulcerative Colitis



Accuracy of Quantum Blue[®] fecal calprotectin testing to predict endoscopic Mayo score in Ulcerative Colitis.

Reference: Lobaton ECCO 2012, A New Rapid Test for Faecal Calprotectin Predicts Mucosal Healing in Ulcerative Colitis

Simplified Stool Extraction with BÜHLMANN CALEX® Cap and Valve

All Quantum Blue® Calprotectin assays are fully compatible with CALEX®.

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

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

The device is pre-filled with extraction buffer.

Stable: Extracts remain stable for at least 7 days at room temperature

and 15 days at 2-8°C. Long-term storage at -20°C is possible

for at least 23 months.

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

transport. It is certified leakproof to 95kPa.



CALEX® Cap



CALEX® Valve



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