



BÜHLMANN

Fecal pancreatic elastase

BÜHLMANN fPELA® turbo Success Stories

Successful implementation of the BÜHLMANN fPELA® turbo on Roche cobas® c502

A report from Dr. Marc-Antoine Bagnoud*, Dianalabs in Geneva, Switzerland

*Laboratory director of clinical chemistry at Dianalabs, Geneva

Dianalabs is a mid-sized private lab founded in 1988 in Geneva, Switzerland, and part of the large swiss lab network Medisupport group with a total of 900 employees. Dr. Marc-Antoine Bagnoud, laboratory director of clinical chemistry at Dianalabs talked with us about the successful evaluation and implementation of the BÜHLMANN turbidimetric fecal pancreatic elastase assay, fPELA turbo in his laboratory.

Dianalabs in Geneva already applies BÜHLMANN fCAL® turbo, the turbidimetric assay for measuring fecal calprotectin, on their Roche cobas® c502 for over 5 years in routine. When the BÜHLMANN fPELA® turbo was launched in 2020, Dr. Bagnoud and his team also evaluated and implemented the immunoturbidimetric fecal pancreatic elastase assay in their laboratory.

What were the reasons for implementing the BÜHLMANN fPELA® turbo on your Roche cobas® c502 chemistry analyser?

One of the main reasons for the implementation of the BÜHLMANN fPELA® turbo was the easy handling of the extraction device, CALEX® Cap, and its direct application on the cobas® chemistry analyser without any additional handling steps. The CALEX® Cap developed by BÜHLMANN is ideal for extracting fecal samples and the analysis thereof on automated platforms.

Our aim was to avoid separated fecal sample preparation protocols for pancreatic elastase and calprotectin. We intended to combine it in the same work step. Although the two markers stand for different diagnoses, both markers are frequently requested at the same time.

With the implementation of the pancreatic elastase assay, we could terminate outsourcing the pancreatic elastase analysis. Furthermore, it allowed us to simplify the complete process of stool sample preparations.

The possibility to measure fecal calprotectin and pancreatic elastase from the same extract with the CALEX® Cap extraction device was a key factor for applying the BÜHLMANN fPELA® turbo on our cobas® analyser.

How about the implementation of the BÜHLMANN fPELA® turbo in your lab, did it go smoothly?

Since the assay installation was the first one on a Roche cobas® analyser, the two companies, Roche Diagnostics and BÜHLMANN, worked together to install the new method. This coordination was efficiently led by BÜHLMANN without affecting our usual routine work. Since going into routine, the BÜHLMANN fPELA® turbo runs very smoothly on our cobas® analyser.

„The CALEX® Cap extraction device is fast and easy to handle.“

What are your experiences with the BÜHLMANN fPELA® turbo in daily routine?

A very important point was to obtain speedier results as compared to when the analysis was outsourced. The procedure with the CALEX® Cap extraction device is fast and easy to handle. We use the fecal extraction daily and report the results within the day.



Dr. Marc-Antoine Bagnoud, Laboratory director of clinical chemistry at Dianalabs, Geneva, Switzerland

Finally, we hope you are satisfied with the service and support offered by BÜHLMANN?

We are very satisfied with the support and competence of BÜHLMANN, and they always supported us whenever we had questions and need for advise.

**This interview was shortened and edited for a better overview*



Introduction of the random access measuring BÜHLMANN fPELA® turbo on Roche cobas® 8000

An interview with Yvonne Schallberger, Bioanalytica, Lucerne, Switzerland

Mrs. Schallberger decided to introduce the BÜHLMANN fPELA® turbo Test, that measures in random access as well as in batch mode the fecal pancreatic elastase in a minimum time of 10 minutes. This can be done on most clinical chemistry analyzers on the market.

Mrs. Schallenberger, what made you decide to introduce this test?

Before, the pancreatic elastase determination was already performed in the lab. This was on an Euroimmun Analyser I. Since last spring we switched to BÜHLMANN fPELA® turbo onto Roche Cobas® 8000, to join the BÜHLMANN fCAL® turbo assay which we successfully transferred to the Cobas® in the previous past and runs very satisfactory routine since then. With this experience, we expected the same efficiency and quality for the pancreatic elastase application.

Did you encounter any issues with the implementation of the BÜHLMANN fPELA® turbo on the Cobas® system?

With support from Roche the implementation was very smooth and no

interferences were detected, something we were convinced by.

Your experiences with daily routine that includes the BÜHLMANN fPELA® turbo concerning run times and reporting speed?

The experience is excellent. Results are available so quickly and the over-range results can be remeasured in dilution the same day and reported as well. In the previous setting, with application on Analyser I we could only remeasure these results with delay on a following day.

„When using the BÜHLMANN fPELA® turbo, results are available more quickly.“

As you mentioned, before switching to our fPELA turbo, the ELISA test from ScheBo was the test applied in your lab. How about the method comparison?

The test results of our previous method to the BÜHLMANN fPELA® turbo on the Cobas®

8000 were very comparable, thus the basis for a switch without delay.

And your experience with the CALEX® Cap extraction method?

The good thing is that by using CALEX® Cap, when needed there is only one extraction procedure required for both tests on the Cobas, the BÜHLMANN fCAL® and the BÜHLMANN fPELA® turbo!

Can you recommend the application of the BÜHLMANN fPELA® turbo?

Of course! We are very satisfied with the quality of BÜHLMANN Products.

**This interview was shortened and edited for a better overview*



Yvonne Schallberger and Team, Bioanalytica, Lucerne, Switzerland

Optimization of lab processes by introducing the BÜHLMANN fPELA® turbo on Beckman Coulter AU 5800

Testimonial from Angela Suter and Dr. Cyril Fuhrer*, Synlab Suisse SA, Lucerne, Switzerland

**Head of Operations FAMH Clinical Chemistry, NF Hematology, Microbiology and Immunology, SYNLAB Suisse SA, Luzern*

You are successfully performing routine fecal calprotectin measurements with the BÜHLMANN fCAL® turbo Assay on the Beckman Coulter AU 5800. What are your experiences with applying a CALEX® Cap fecal extract onto a high throughput analyzer in your routine?

The test is running stably, with high precision and the handling of stool extract has been integrated into the day to day work of the high throughput analyzer without problems and is part of our daily routine.

What are the main reasons to adapt your testing of fecal pancreatic elastase by introducing the fPELA turbo assay by BÜHLMANN?

Mainly the need for optimization of the lab processes and slimming the procedure of testing this analyte. The formerly used ELISA based platform only allows for a batch-wise procedure, which was the major drawback in our routine service. By switching to your application onto the Beckman Coulter AU 5800, we could finally establish Continuous-Flow Analytics

which enables us to reach a way better turnaround time TAT. Also cost efficiency of running this analyte at SYNLAB could be improved.

...and how about the implementation in your lab, did it go smoothly?

As an ISO accredited lab (STS 156, ISO/IEC 17025:2017) we performed the evaluation according to our Quality Management regulations and that went very well, without delays. So, yes.

What about the method comparison to your previously used ELISA?

Altogether we could well switch, as the clinical interpretation of both methods fits.

SYNLAB uses the CALEX® Cap for stool extractions in fCAL preparations. We expect it is advantageous to work with this tool also with fPELA?

Yes, the availability of the same extraction procedure especially when both analytes are requested (in about 15-20% of cases), is a great advantage and simplification

for the labwork indeed. And in the future, with the Home fecal Extraction Kit we can even go one step further in efficiency optimization of our processes.

Finally, we hope you are satisfied with the service and support offered by BÜHLMANN?

The Service and support offered by BÜHLMANN is excellent and this is yet another reason why we are also happy to recommend the BÜHLMANN fPELA® turbo assay.

**This interview was shortened and edited for a better overview*



Angela Suter, Synlab Suisse SA, Lucerne, Switzerland