



KAIVOGEN



Labrox

Comprehensive Assay Development Service

CONCEPT OVERVIEW

Outsource your assay research & development utilizing our knowhow, quality and resources

Are you looking for

- An experienced partner to help you in your assay development
- Detection technology evaluation to improve the sensitivity of your existing assay
- A customized measurement instrument tailored to your needs
- High-quality assay components manufactured according to your specifications
- A reliable OEM instrument manufacturer with clinical software
- Extra hands to effectively move forward with your development project
- A full service concept providing ready-to-use as well as custom-tailored assay components
- Detection instruments, software and professional **customer support/consulting**

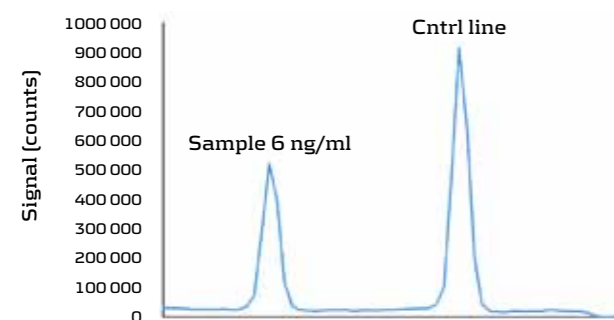


Kaivogen's new coating line can handle batch sizes up to 3200 plates.

Assay chemistry development from Kaivogen

Kaivogen provides full service for your immunoassay development starting from the optimization of single assay components, like customized microplate coating, to full kit development. We have a strong background in developing assays based on **time-resolved fluorometry** (TRF), but are open also for other detection technologies, like **ELISA** or **ECL**. We are also developing a next generation label technology based on photon upconversion (Upcon®) with very promising results.

In addition to traditional microplate based assays, we can help you with **lateral flow** (LF) and **microfluidistics** based platforms.



Example of lateral LF assay performed with new Upcon® label technology. The sample was first incubated with Upcon particles and ran into the LF strip, which was scanned with Upcon reader. The analyte concentration used was 6 ng/ml.



Kaivogen can take care of your OEM manufacturing from single assay component to full assay kit.

Full-scale plate coating service

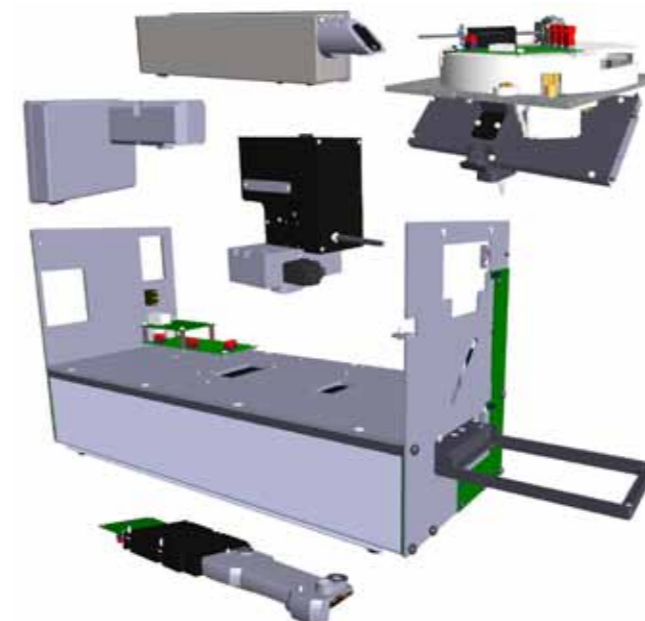
We have full-scale plate coating service with batch-sizes from 50 to 3000 and labelling service for up to 50 mg batches. Our buffer manufacturing can produce batches of several hundred liters.

Ready-to-use toolbox reagents, like streptavidin and anti-species coated microplates, as well as buffers and other solutions needed with TRF based assays are readily available.

Instruments & modules through contract development and manufacturing

Already a recognized international OEM-manufacturer Labrox also offers contract development of instruments, modules and solutions.

Our modular approach offers easily customizable instrument solutions and our design service ensures that the instruments meets your needs and displays your colour, brand and logo.



Dedicated instrumentation

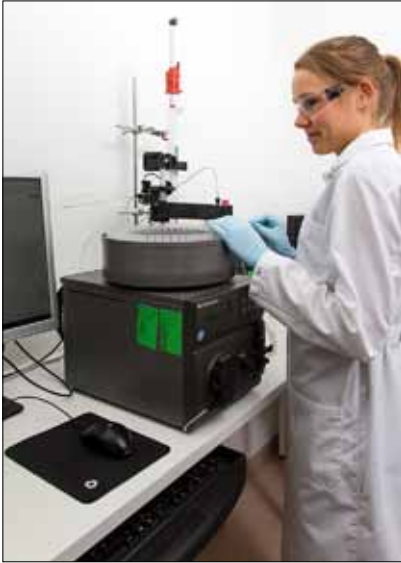
For the assay development phase we offer a flexible plate reader platform featuring:

- measurable plate formats up to 384 well plate
- adapters for lateral flow strips or Petri dishes
- scanning software
- shaking and temperature control
- detection technology options TRF, TR-FRET, Upcon®, luminescence, absorbance and fluorescence



Labrox contract R&D has an established reputation in solving various development challenges be that complete instrument systems or modules.

Comprehensive assay development service



For your specific outsourcing needs

- Offered by two Finnish life science companies, Labrox and Kaivogen
- Combined experience of more than 10 decades in developing assays, chemistries and instruments for diagnostic/clinical use
- Covering ready-to use materials and instruments, OEM manufacturing and custom services
- Choose from a selection of detection technologies including ELISA, time-resolved fluorometry and photon upconversion
- A reliable OEM instrument
- Extensive know-how on assay setups ranging from microtitration plates to microfluidics and lateral flow

Kaivogen Oy, Finland

- Founded in 2007
- AAA credit rating
- Head count 25, 6 PhDs
- State-of-the-art production, synthesis and R&D facilities all under the same roof
- ISO 9001 and ISO 13485 certification



Labrox Oy, Finland

- Founded in 2011
- AAA credit rating
- Head count 15
- Modern production, R&D and toolshop facilities all under the same roof
- ISO 9001 and 13485 certification. TÜV, RoHS and REACH certificates



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