

# EXPERIENCE THE FULL POTENTIAL OF YOUR CV OR NYONE IMAGER

*Introduction of PAIA assay kits for titer analysis and glycosylation screening*

## SYNERGY BETWEEN FORMATS AND WORKFLOW

The SynenTec imagers support CLD work in many ways e.g. by single cell detection, confluence analysis and cell viability analysis. With PAIA assays it is now also possible to use your Cellavista/ NyONE to measure product titers and glycosylation in a fast and reliable way, increasing the efficiency and the quality of your process development and saving time.

## INTEGRATED CLD WORKFLOW

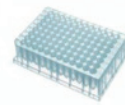
Selection and cloning



Expansion





Media optimisation



Bioreactor studies



Single cell assurance	✓			
Confluence	✓	✓		
Trypan blue		✓	✓	✓
Titer 	✓	✓	✓	✓
Glycosylation 		✓	✓	✓

## INCREASE THROUGHPUT -THE FASTEST WAY TO DETERMINE PRODUCT TITERS

PAIA assays can quickly determine titers of antibodies and antibody derived products at the different stages of upstream development. A throughput of four 96-well plates or one 384-well plate per hour can easily be reached, matching the throughput of a Forte Bio Octet HTX system. Parallelisation will allow a 3-4 times increase in throughput, making PAIA assays the fastest system on the market.

- Measurements on CV/NyONE with PAIA templates
- Read-out time of a 384-PAIA plate is three minutes
- Sample volume 5-10 µL
- Crude supernatants without dilution
- All PAIA assays can be automated on most liquid handling platforms

→ **Try PAIA assays if you want to screen more clones or faster**

## THE TITER ASSAY PORTFOLIO

PAIA titers are available for antibodies, Fc fusion proteins and Fab fragments. They all use the same workflow which allows easy implementation. The assays cover different concentration ranges, as low as 0.2 µg/mL (e.g. for transfected pools) and up to 3 mg/mL that can be found in bioreactors.

- **Try PAIA if you need to streamline your workflows**
- **Try PAIA if you have issues with Fab assays**

## IDENTIFY AND SELECT MORE HIGH QUALITY CLONES WITH PAIA GLYCOSYLATION ASSAYS

The PAIA glycosylation assay is the first product to enable researchers to measure product glycosylation as early as the 96 DWP-stage, all while using much less sample than traditional methods. The assays use lectins to detect the different glycans on the antibody, Fc fusion protein and glycoproteins.

- Optimization of sialylation on Fc-fusion proteins
- Optimize Galactosylation
- Identify High Mannose glycan clones/conditions
- Measure degree of Fucosylation

- **Try PAIA if you want more high quality clones**
- **Try PAIA if you need glycosylation information quickly**

## SIMPLE DATA ANALYSIS

The data analysis of PAIA assays is amazingly fast and easy. CV/NyONE raw data are directly imported into the PAIA software tool or Excel templates that produce calibration curves and results in few minutes.

- No inspection of images, no image analysis
- Results are a matter of minutes