BPES

SYNENTEC   PAIA

UNLEASH THE POTENTIAL
OF YOUR CLD PLATFORM

COMBINE THE POWER OF SYNENTEC AND PAIA TO SIMPLIFY YOUR CLD WORKFLOW; ESSENTIAL CLD MEASUREMENTS INCLUDING:
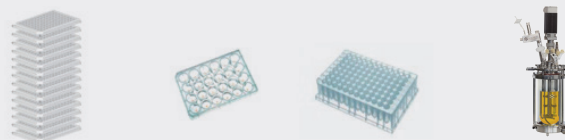
- Single cell assurance
- Cell viability
- Cell number
- Product titre
- Glycosylation

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 use your Cellavista/ NyONE to measure product titres 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 & CLONING	EXPANSION	MEDIA OPTIMISATION	BIOREACTOR STUDIES
Single cell assurance	✓			
Cell number	✓	✓		
Cell viability		✓	✓	✓
Titer	PAIA	PAIA	PAIA	PAIA
Glycosylation		PAIA	PAIA	PAIA

INCREASE THROUGHPUT - THE FASTEST WAY TO DETERMINE PRODUCT TITRES

PAIA assays can quickly determine titres 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. 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
- **Fast!** Time to result in less than 20 minutes
- Small sample volume required (5-10uL)
- Crude supernatants - no cell removal necessary
- **Automation ready** for liquid handling platforms
- Cover wide range of concentrations from 0.2 µg/mL (e.g. for transfected pools) up to 0.6 mg/mL

DEMOS AVAILABLE

BPES are pleased to be able to offer demos across the SYNENTEC and PAIA range. Contact us for more details and to book.

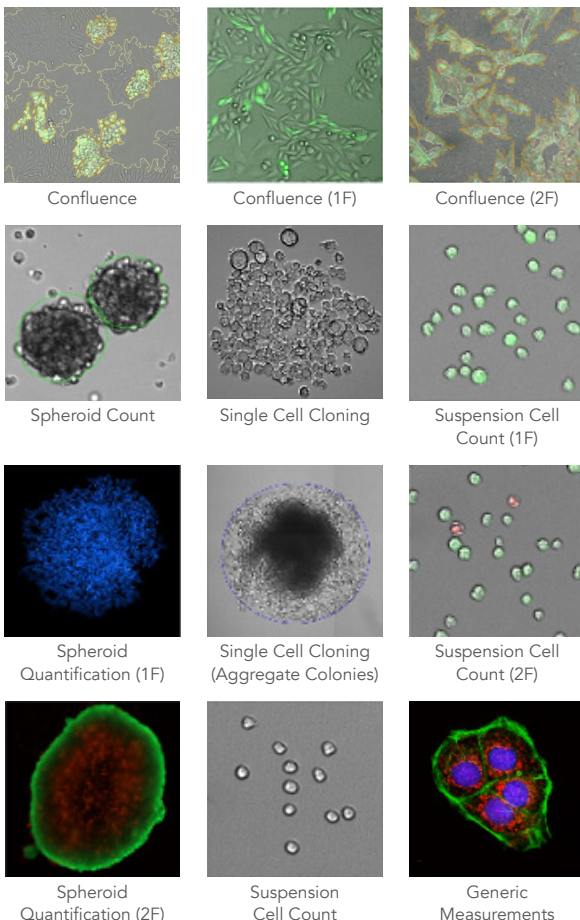# IDENTIFY AND SELECT MORE HIGH QUALITY CLONES WITH PAIA GLYCOSYLATION ASSAYS

The PAIA glycosylation assay was 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.

- Measurements on CV/NYONE with PAIA templates
- Optimisation of sialylation on Fc-fusion proteins
- Optimise Galactosylation
- Identify High Mannose glycan clones/conditions
- Measure degree of Fucosylation
- **Customisable!** Customer selects the type(s) of glycosylation required to screen for - PAIA supplies the corresponding lectins
- Easy to use and small sample volume required

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

Confluence

Confluence (1F)

Confluence (2F)

Spheroid Count

Single Cell Cloning

Suspension Cell Count (1F)

Spheroid Quantification (1F)

Single Cell Cloning (Aggregate Colonies)

Suspension Cell Count (2F)

Spheroid Quantification (2F)

Suspension Cell Count

Generic Measurements

FOR THE FULL USE OF APPLICATIONS SEE OUR WEBSITE.

UNLOCK A WORLD OF APPLICATIONS WITH NYONE/CELLAVISTA IMAGERS

SYNENTEC provide the most versatile cell imagers on the market. The instruments all have the option of full fluorescence capability. Data analysis is via SYNENTEC's inbuilt powerful image processing tools which gather robust data and are simple to use with a variety of configurable data export options.

- Wide range of built in applications including single cell assurance, cell counting and viability, transfection efficiency, wound healing, and many others
- High throughput and fully automatable
- Laser based autofocus system
- Combines proven bright field capabilities with innovative fluorescence optics to achieve fast, non-invasive imaging
- Multiple fluorescence channels for in-detail analysis of cell status (high content)
- Compatible with a wide range of SBS format plate types
- **Now available with validation software for 21 CFR part 11 compliance**