

# Solentim's STUDIUS™ Powered Ecosystem Clonality in Cell Line Development Workflows

**SINGLE CELL ISOLATION** 

#### **IN-WELL ASSURANCE**

**OUTGROWTH IMAGING** 

**CLONING PLATE ASSESSMENT** 

SELECT FOR **SHAKEABILITY** 

**EXPANSION PRODUCTIVITY SELECTION** 

SUSPENSION **VIABLE CELL DENSITY** 

#### **High-efficiency** Single-cell Seeding

Very low-pressure seeding with highefficiency plating leads to confidence in clonally--driven outgrowth.

#### **In-well Imaging**

Cell imaging of the droplet in the dry well gives evidence of successful single-cell isolation.

#### Day 0 Single Cell Assurance

Whole-well, high-contrast imaging of the media-filled well to confirm the presence of a single cell at Day 0.

#### **InstiGRO**<sup>TM</sup> **Cell Supplement**

**CLONAL** 

**GROWTH** 

Higher chance of single-cell recovery and faster, high-efficiency clonal outgrowth for compressed workflows.

#### **Cloning Plate -Producers vs** Non-producers

Triage cloning plates for eliminating nonproducers early.

# **InstiSHAKE™ Cell Supplement**

Increased growth rates and viability when expanding from static to fed-batch shaking culture.

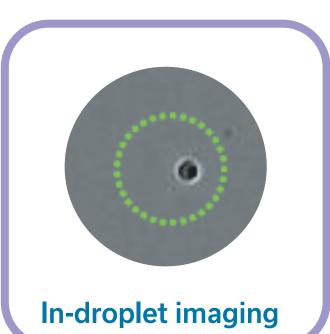
#### **Titer and Viable Cell Density (VCD)**

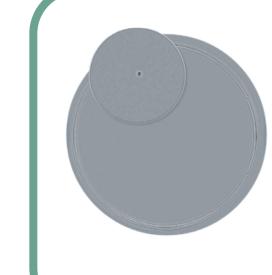
Measuring IgG titer and VCD for fed-batch deep-well plates.

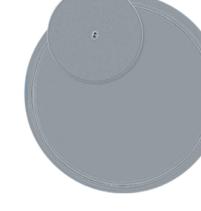
#### Calculate **Productivity (Qp)**

Use STUDIUS to calculate Qp and select top clones in virtual plate-based on Qp and clonal assurance.

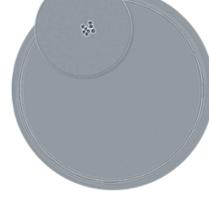


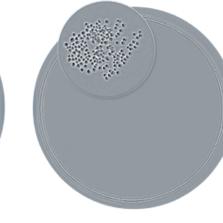
















Viable cell density

Daily whole well imaging is quality evidence of clonality





#### **SEEDING WITH ASSURANCE**

#### **VIPS® PRO**

High efficiency, single cell seeding with image-based proof of clonality for GMP-compatible workflows



# **ASSURANCE & GROWTH**

#### Cell Metric®X

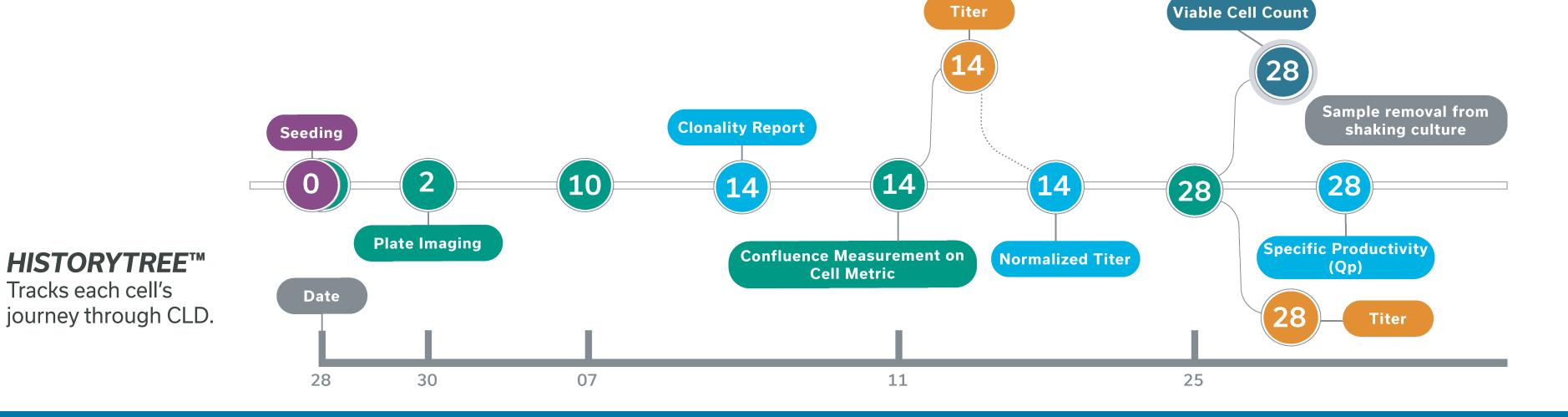
Clonal imager with automated assurance and artificial intelligence-driven Automated **Evidence of Clonality** 



# **PRODUCTIVITY SELECTION**

### ICON™ & STUDIUS™

Intelligent decision-making platform with data management.



# **Cell Growth Supplements** INSTITUTED IN STATE OF THE PROPERTY OF THE PRO

Optimize growth conditions for iPSC, CHO and HEK cells throughout different stages of the cell line development process.