

## Osmolality and Clonality – Critical Quality Attributes In Production of Modern Therapeutics.

Use Cases for mAbs and Cell and Gene Therapy Workflows



The Solentim portfolio of assurance rich technologies are trusted solutions for the isolation and characterization of high value single cell clones in cell line development (CLD), enabling smarter decisions earlier in the process.



VIPS™ PRO High Efficiency Single Cell Seeder with Assurance

High efficiency, high viability

single cell seeding in

96/384 well plates

First stage evidence of clonality

(single cell in dispensed droplet)



Cell Metric<sup>®</sup> X
Clone Image with
Automated Assurance

Tracking of initial cell division, colony

outgrowth and growth rate

Second evidence of clonality

(Single cell in media-filled whole

well image - completes the

'double lock' of assurance)



ICON™
Top Clone Selection for Productivity

InstiSHAKE™ Growth
Supplement for Transition
from Static to Shaking
Culture

High accuracy viable cell counts and titer for suspension cultures

Combines productivity with clonal origin for top clone selection

Preparation & Clonality

Cell Line

Development

Outgrowth & Scale-up

Selection & Banking

WORKFLOW

**USE CASES** 



Media Development & Optimization

InstiGRO™ Growth

**Supplement for** 

**Cloning Plates** 

Master Cell Banking

Scale Up in Bioreactors

## Downstream

Feed & Buffer Development

Purification

InstiTHAW™ for

**High Viability Freeze/Thaw** 

for Cell Banking

Filtration

**ADVANCED**INSTRUMENTS



OsmoTECH® osmometers, designed specifically for the biopharma industry, are a powerful tool in both the upstream and downstream workflows including those in Cell and Gene Therapy applications. **USE CASES** 

Media QC Cell Culture Monitoring

Cryopreservation of Cell Banks

(Bioreactor Monitoring)

Transfection/Transduction Optimization )





Buffer & Feed QC ) (Purification Optimization and Monitoring)

Confirmation of Sufficient Buffer Exchange / Concentration

Formulation Development and Stability Testing

Cryopreservative Final Product QC & Compendial Testing





**TECHNOLOGY** 



OsmoTECH® HT Automated Micro-Osmometer



OsmoTECH° XT Single-Sample Micro-Osmometer



OsmoTECH° PRO Multi-Sample Micro-Osmometer