

Cell Metric[®]

The trusted standard for clonal assurance

High contrast imager for
single cell identification
and clonal outgrowth
characterization.

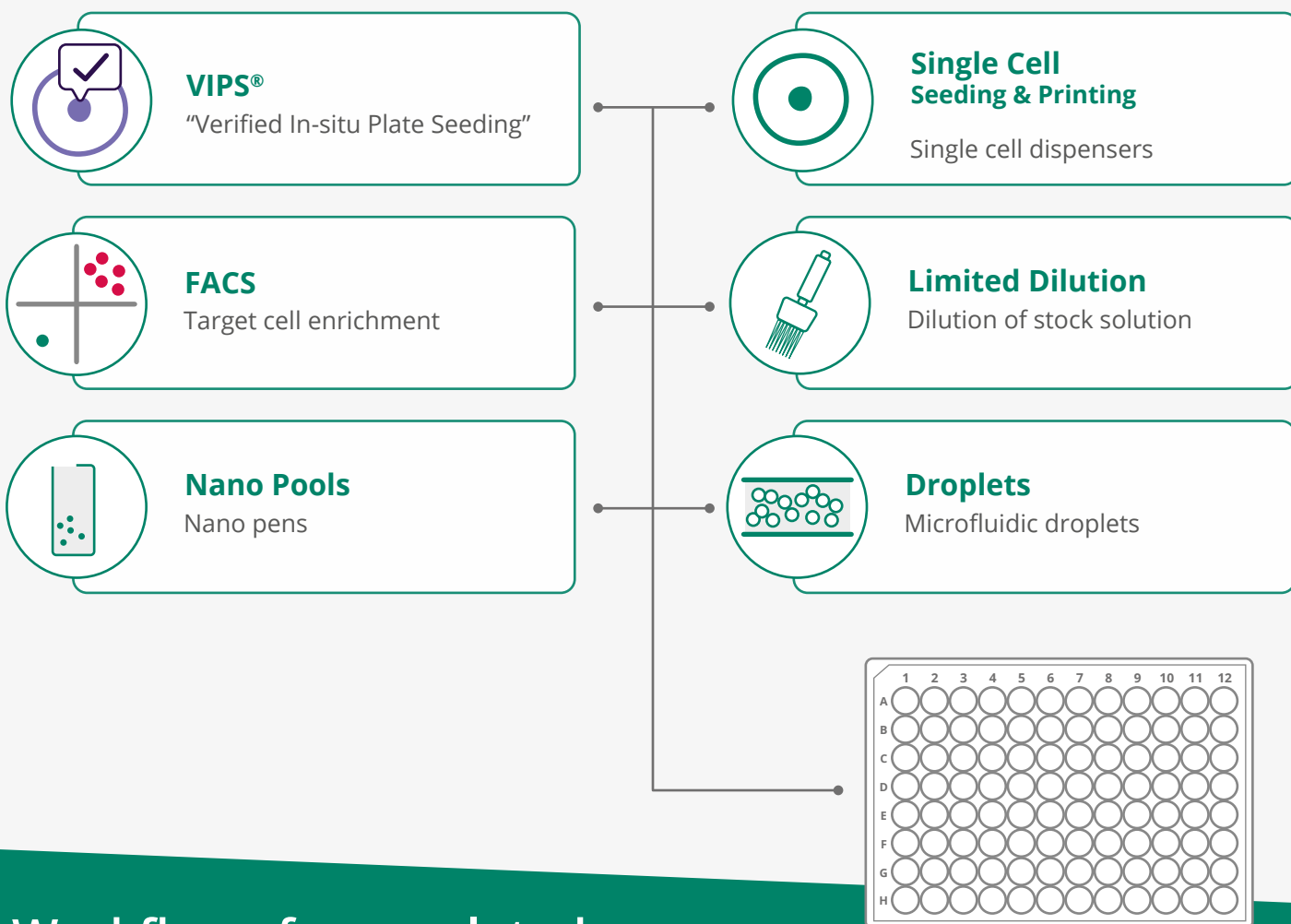
www.solentim.com



Image-based assurance *of clonal derivation*

Cell Metric provides unambiguous, time-line based evidence of a single cell's journey through outgrowth to clonally derived colony. Specialized, high quality

images enable the user to observe and clearly annotate single cells. Single cells are discriminated from doublets and wells not containing cells.

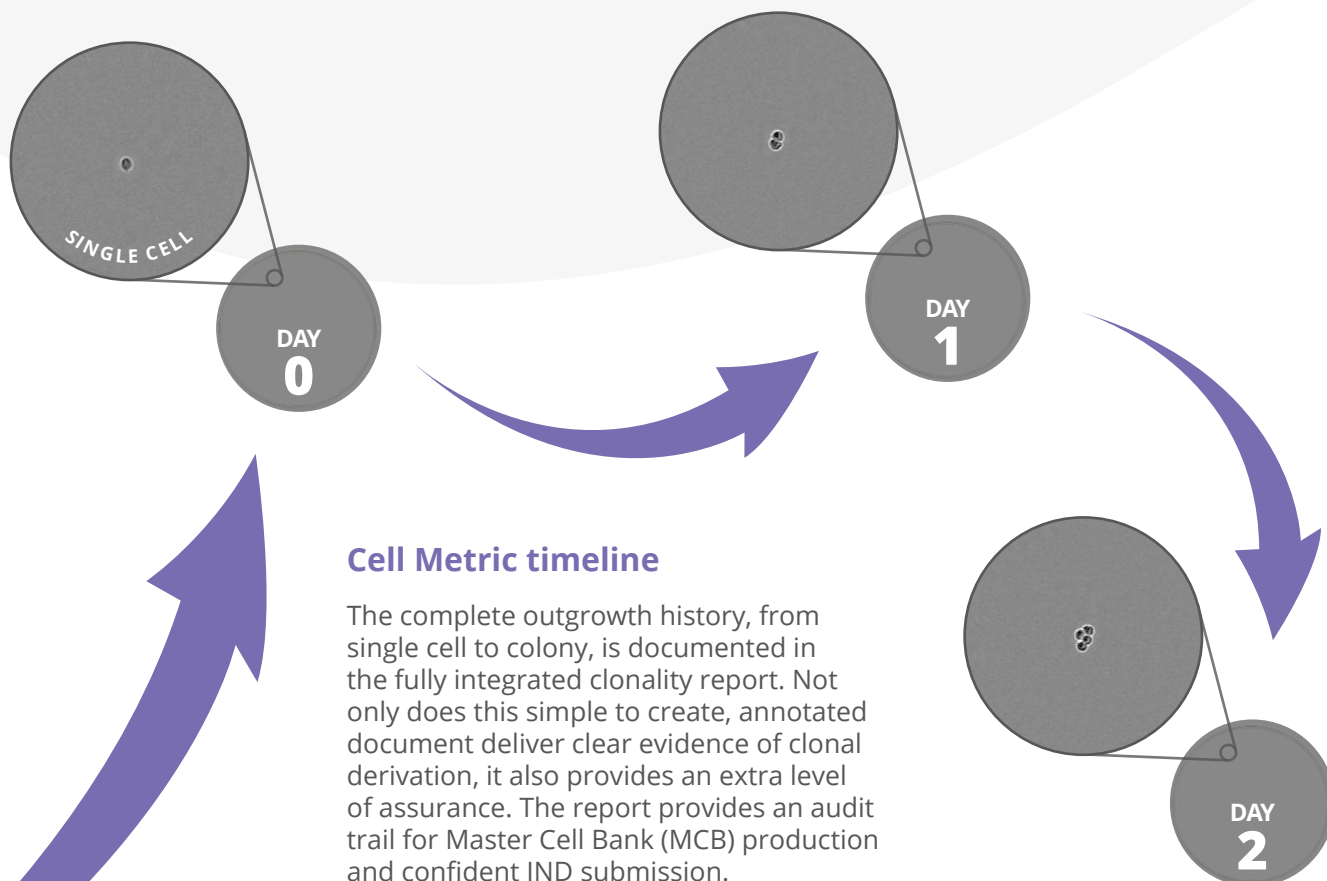


Workflows for regulated environments

Cell Metric standardizes evidence of single cell derivation defining best practice for Master Cell Bank production. Used globally in most of the world's leading pharmaceutical and

biotherapeutics companies, Cell Metric is the leading solution for providing regulatory information on clonality for Investigational New Drug (IND) submissions.

Cell Metric combines high quality images with data continuity, providing daily imaging with recorded evidence of single-cell to clonal growth.



Cell Metric timeline

The complete outgrowth history, from single cell to colony, is documented in the fully integrated clonality report. Not only does this simple to create, annotated document deliver clear evidence of clonal derivation, it also provides an extra level of assurance. The report provides an audit trail for Master Cell Bank (MCB) production and confident IND submission.

Evidence that it started as a single cell



Whichever approach you use to seed cells, you need to capture evidence of the 'day 0, single-cell' and subsequent outgrowth. A multi-day timeline of clear, image-based evidence is essential when demonstrating to regulators that outgrowth originated from a single cell.

Linking

Data-sync connects cell information from Solentim's VIPS (Verified In-situ Plate Seeding) system through to Cell Metric.

VIPS

Cell Metric

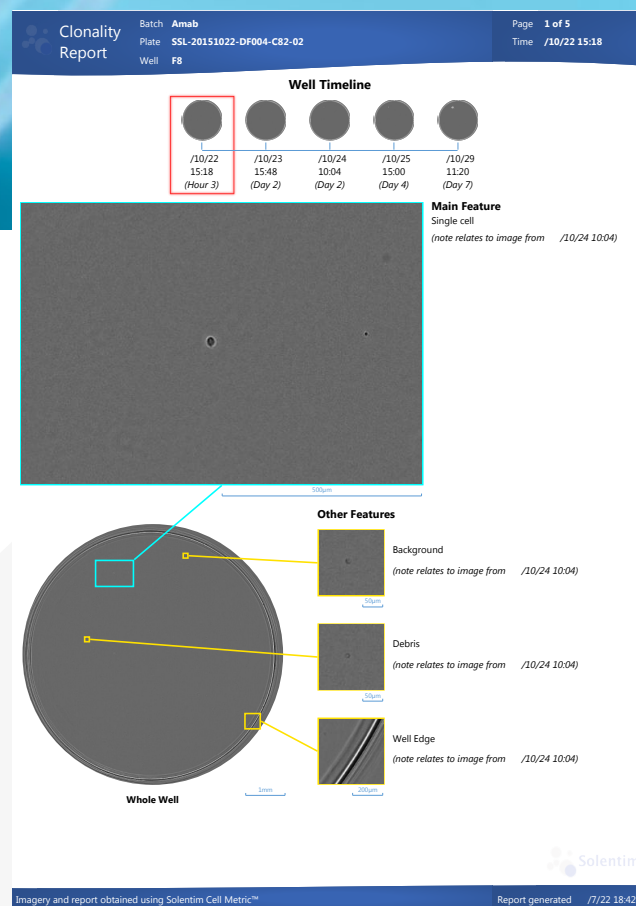
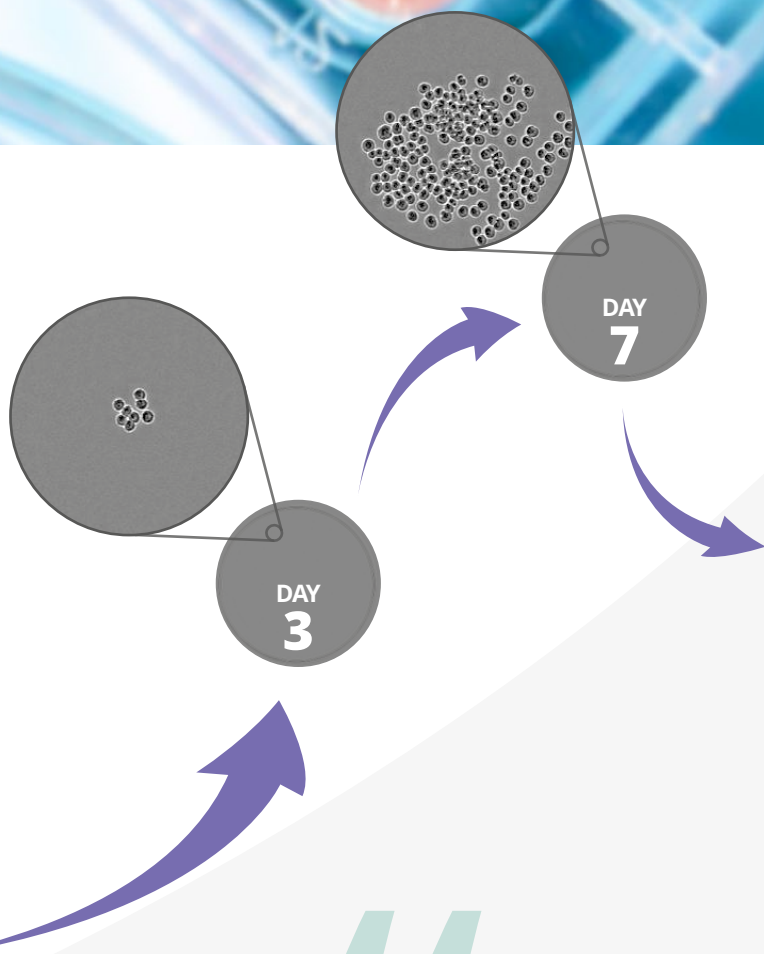
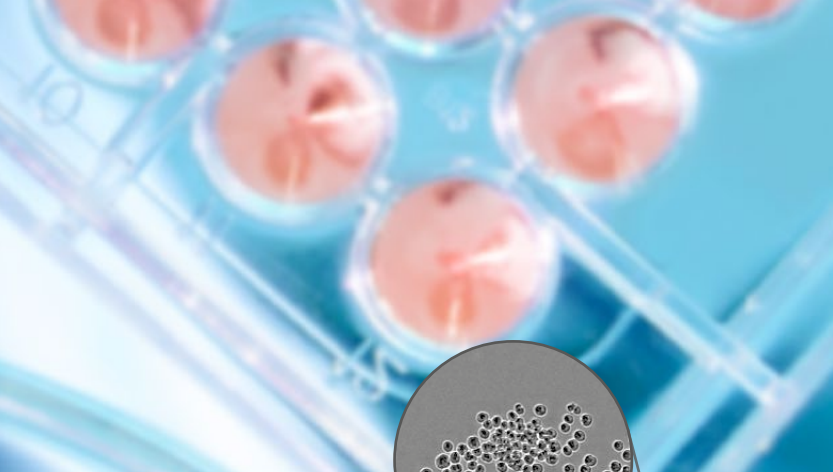


DATA SYNC



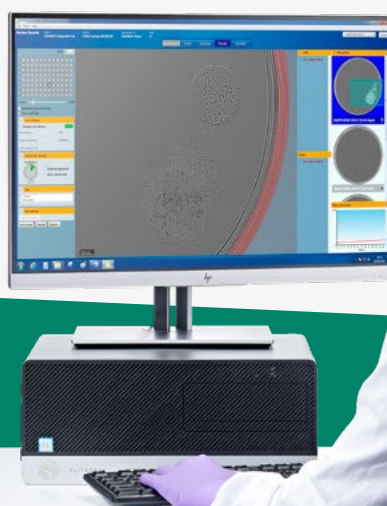
Save time, resources and financial investment

Such is the confidence in data originating from the Cell Metric®, workflows, such as those involving sub-cloning, mini-pools or repeated limited dilution rounds, can be significantly compressed, saving time, resources and financial investment.



“Imaging systems are frequently combined with other cloning tools... providing a visual evaluation of the techniques’ “success” in real time. For this reason, from a development perspective, imaging technology offers an attractive way of providing supportive data to assure clonal derivation of production cell lines in lieu of additional laboratory work.”

U.S. Food and Drug Administration Joel T. Welch
and N. Sarah Arden, Biologicals*



* <https://doi.org/10.1016/j.biologicals.2019.09.006>

Master Cell Bank generation

Cell line development for biologics

🏆 Examples: CHO, CHO-S, CHO K1, HD-BIOP3 (Horizon), CHOZN (Millipore Sigma)

Assurance of clonal derivation

A crucial component of quality and consistency, the Food and Drug Administration (FDA) and European Medicines Agency (EMA) both evaluate assurance of clonal derivation as part of an IND submission.

Gene and cell therapy

🏆 Examples: HEK293, Sf9, 293T, HeLa

Cell lines for viral vector production

Solentim customers have developed and banked stable, high producer clones – with demonstrated clonally-derived single cell origin – in less than three months.

Human Induced Pluripotent Stem Cells

🏆 Examples: disease models and CRISPR-edited iPSCs

Manipulation and pluripotency

For documentation and characterisation of stem cell colony outgrowth.

A DECADE OF demonstrated Success

"The Cell Metric clonality reports are a critical component of our CLD workflows.

In practice, the Cell Metric yields clear images of each well, coupled with a user-friendly software that allows for speedy determination of single cell clones. Once single cell wells are identified, the report generation process is seamless.

Following cell line development custom service projects, we provide these reports directly to our customers for use in their IND filings."

Amber Petersen
Principal R&D Scientist • MilliporeSigma



Jolanda Gerritsen
Technology Expert, Cell Line Development • Genmab

"By adopting VIPs and Cell Metric, the CLD team can cut our timelines for transfection to ambr15 from six months down to 10-13 weeks."



Shanghai OPM Biosciences Co. Ltd.

"VIPs and Cell Metric enables us to provide faster and better services to our customers."

Enhanced productivity workflows

using VIPS, Cell Metric CLD and Robotics

Enhance your workflow by integrating high efficiency single-cell seeding technology from VIPS, automated plate handling within a temperature-controlled environment from Cell Metric CLD or downstream third party robotic integration.

Access Cell Metric data anytime, anywhere with Remote Data Viewer.



VIPS



Cell Metric® CLD

The experts on cell line development workflows

We draw on decades of high-level scientific skill in cell line development to advise our customers on modern assurance-focussed workflows.

Contact us to request recent case studies and to discuss your specific challenges with our expert team.



Quality support for your cell line development process

We combine unrivalled technology and expertise to deliver complete assurance by building quality into every step. In a changing regulatory landscape, we keep an eye to the future, providing a global network of support for our customers.

We offer installation qualification/operational qualification (IQ/OQ) packages for quality-led installation, as well as on-site application and service and support packages to maximize your investment.

Purpose-built

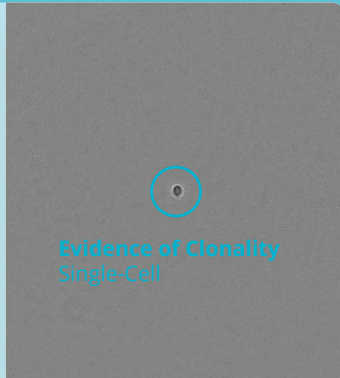
for imaging assurance

Solentim's technology has one goal, that of confidence. Confidence comes from clarity of data and the ability to reproducibly verify derivation from a single cell.

To that end, Solentim has developed a range of novel technologies:

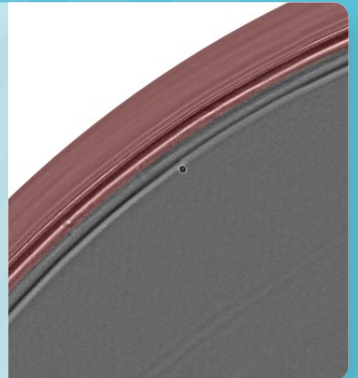
Clarity in purpose

A highly tuned brightfield optical path maximizes the clarity of single-cell imaging for assured cell line development.



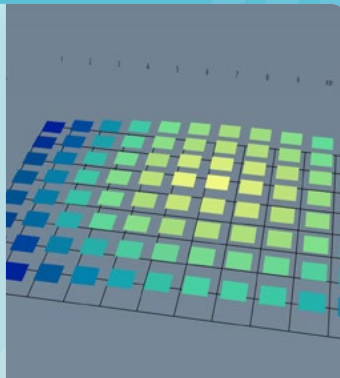
Right up to the edge

Sophisticated methodologies to maintain image clarity right up to the edge.



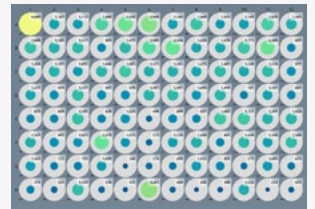
Always in focus

Proprietary laser focussing ensures optimal focal position in each well.



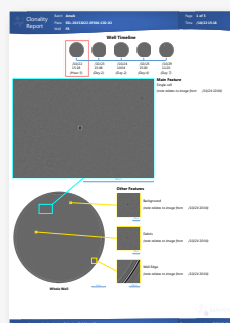
Automated confluence determination

Quickly and automatically review wells with colony outgrowth.



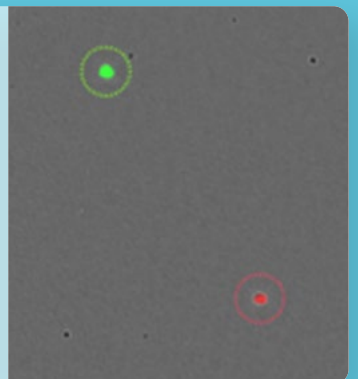
An audit of cell history

Combine data from the entire timeline into a documented clonality report.



Fluorescence imaging for rare event detection

The option of workflow verification using rare-event fluorescent imaging.



About Solentim

Solentim is the trusted global leader for solutions to create, isolate and characterize the highest value cells for the development of new biological medicines and therapies.

Our portfolio of proven and innovative technologies, combined with our unparalleled experience, ensures our customers achieve accelerated Master Cell Bank development and are confidently prepared for regulatory review.

FOCUSED ON HIGH VALUE CELLS

Solentim 

www.solentim.com



Cert No. 12777
ISO 9001

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