

**T**he evaluation of many bioassays requires accurate recognition of complex optical patterns in test wells. While the expert's eye is remarkable in judging morphologies, visual evaluation is tedious, does not leave transparent audit trails, and is error prone. CTL has created a reader platform, BioSpot®, that evaluates these assays with the accuracy of an expert's eye, minus the shortcomings.

### Accuracy and Objectivity

Unlike visual analysis by different investigators or repeat analysis by the same one, the results produced by the BioSpot® Platform will be identical and user-independent each time a plate is analyzed. Reading with the BioSpot® Platform will eliminate the largest variable in these assays: subjective evaluation.

### QC & Documentation

Regulatory agencies require stringent and transparent documentation of test results. The BioSpot® Platform automatically retains complete audit trails for regulated work, including the tamper-proof archiving of the original digital images together with counting results and possible revisions made in the quality control step.

### Productivity and Streamlined Work Flow

Visual evaluation is typically the rate-limiting step that prevents the utilization of these assays to their fullest potential. The BioSpot® Platform acquires, images, counts, and documents in a fully-automated fashion at a rate of approximately one well per second.

### SOME OF THE MOST FREQUENTLY USED BIOASSAYS ARE PRESENTLY STILL READ BY EYE

- Viral Plaque Assays (PRNT, FRNT, PFU)
- Bacterial Colony Counting (SBA, SBT, OPK, OPA)
- Clonogenic Assays, Cancer, Stem Cell CFU
- Genotoxic Assays, Ames Test, MLA
- Microbial Colony Counting, MPN, TVC, MIC

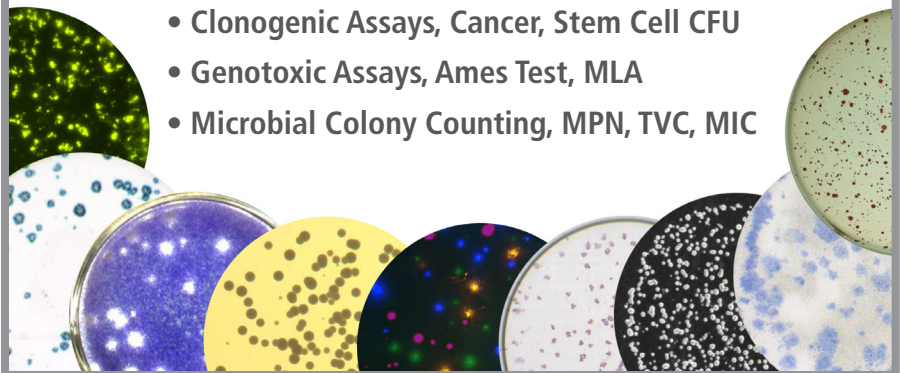


Plate loader integration, barcoding, and automated data evaluation further increase the high-throughput capability of the system.

### Validation

Regulatory compliance requires validation of the assay itself, and of instruments used for evaluating such assay results. CTL offers an optional GLP package that enables 21 CFR Part 11 compliant work and we even provide IQ/OQ/PQ at installation.

### Versatility

Morphometric assays are performed in a range of well formats (384-well plates to 100mm Petri dishes), using either visible or fluorescent light for multicolor analysis. The requirements for optical resolution are unique to each assay. CTL offers a range of BioSpot® instruments to accommodate these requirements. The CTL Technical Support Team will gladly assist you in tailoring a platform to suit your specific needs.



# BioSpot® High-throughput Analysis of Morphometric Bioassays™

## Adaptability

Each morphometric assay has unique requirements regarding optics, resolution, and pattern recognition for analysis. Also, high-throughput and GLP requirements are unique. CTL can help you customize a solution that meets your specific needs.

## Reliability

With 20 years of experience, Cellular Technology Limited leads the field of biomedical image analysis. More than 1600 customers worldwide have trusted CTL Readers and Software Solutions to meet their requirements, including the "who's who" of the biopharmaceutical industry.

## SEEING IS BELIEVING

Schedule a demonstration today so we may present the sophisticated solutions the BioSpot® platform offers.

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BioSpot® Analyzers  
are manufactured under  
**ISO 9001:2008**  
**STANDARDS**



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**Cellular Technology Limited**

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