CLAIRITY™

ImageProVision™
IMAGE ANALYTICS. REIMAGINED.

CLAIRITY™ MICROBE

Automated Colony Counter and Microbial Analysis



Accelerate microbiological workflows with precision, reproducibility, and regulatory-grade traceability.

CLAIRITY™ MICROBE is a high-throughput, AI-powered colony counting and microbial characterization platform engineered for sterility testing, bioburden estimation, and environmental monitoring across pharmaceutical, biotechnology, food safety, and clinical microbiology laboratories.

From pour plates and filtration membranes to spiral plates and chromogenic agar, CLAIRITY™ MICROBE standardizes CFU enumeration, inhibition zone quantification, and digital documentation - delivering consistent, validated results aligned with global pharmacopeial requirements.

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Technical Capabilities & Core Features

Advanced Imaging & Enumeration

01 High-Resolution Optics with Autofocus

Captures ultra-high-definition images of colonies, plaques, and zones of inhibition with calibrated spatial fidelity.

02 Automated CFU Counting

Enumerates discrete and confluent colonies, including irregular morphologies and low-contrast growth, in seconds.

03 AI-Assisted Colony Differentiation

Leverages machine learning to classify colonies by size, chromogenic signature, opacity, and morphology.

04 Inhibition Zone Measurement

Precisely delineates antimicrobial zones with metric-accurate diameter calculations.

Versatile Media Compatibility

- Pour Plates, Surface Plates, RODAC Plates
- Filtration Membranes
- Spiral and Streak Plates
- Chromogenic & Differential Media
- Blood Agar
- Plaque Assays (Viral Enumeration)

Integrated Compliance & Workflow Management

01 Bi-directional LIMS integration

02 21 CFR Part 11 support : role-based access, electronic signatures, audit trails

03 Automatic before/after imaging for verification and traceability

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Applications & Industry Relevance

01
Sterility Testing
Validate aseptic processes and confirm the absence of contamination in critical sterile products.

02
Environmental Monitoring
Quantify microbial load on surfaces and in cleanrooms per USP <797>/<1116>.

03
Bioburden Estimation
Standardize microbial counts in raw materials, intermediates, and finished dosage forms.

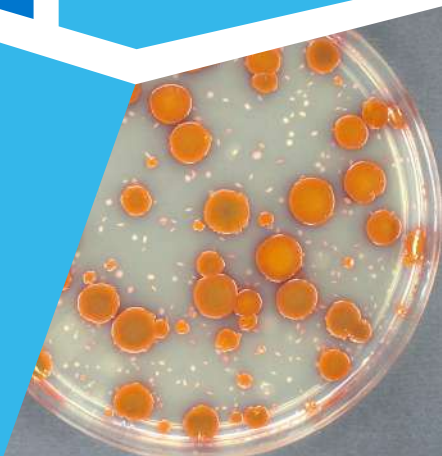
04
Antimicrobial Susceptibility Testing
Perform automated measurement of antibiotic inhibition zones (per CLSI/EUCAST guidelines).

05
Food & Dairy Microbiology
Accelerate detection of spoilage organisms and pathogens in production environments.

06
Veterinary & Clinical Labs
Streamline diagnostic microbial enumeration and data recording.

Why Clairity™ MICROBE

- Reduces turnaround time by up to 95%
- Eliminates manual counting variability
- Supports multi-plate batch processing
- Ensures defensible, audit-ready data
- Provides full traceability of imaging and results



CLAIRITY™

Compliance, Reporting & Deployment

Regulatory Alignment

- Meets USP requirement for microbial enumeration and specified organisms
- Aligned with FDA Pharmaceutical Microbiology Manual best practices
- Supports data integrity with secure, traceable, and audit-ready outputs

Output & Reporting

- Colony count reports with media, incubation, and analyst metadata.
- Inhibition zone measurement exports
- Supports microscopic Gram staining analysis
- Time-and date-stamped before/ after images

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Deployment Options

- Standalone desktop workstation with integrated imaging
- Modular configurations for LIMS and networked environments
- Remote diagnostics and system validation support

To explore CLAIRITY™ MICROBE or arrange a demonstration:

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