

THE CELLBOT COLONY COUNTER FOR THE DIGITAL AGE

Instant, lab-grade accuracy for busy scientists



Distributor:





Reduce Manual Workload, Protect Scientists, and Boost Output

Manually counting colonies forces microbiologists to spend hours hunched over stacks of petri dishes, an exhausting posture that leads to discomfort and strain. CheckCells eliminates this burden by automating colony counting: with just a single plate image, labs receive rapid, standardized results that cut human variability, save valuable time, and accelerate scientific throughput.

Instant, lab-grade accuracy

 Real-time deep-learning vision quantifies bacterial loads down with 99.9% precision, exceeding the golden standard of manual counting.

Plug-and-play automation

 Easily captures images of culture plates; cloud Al auto-calibrates to media type, streams dashboards to LIMS, and cuts manual counting time per plate from minutes to milliseconds.



From Analog to Al

Automated recognition of phenotypic variations including colony size, shape, pigmentation, and fluorescence.

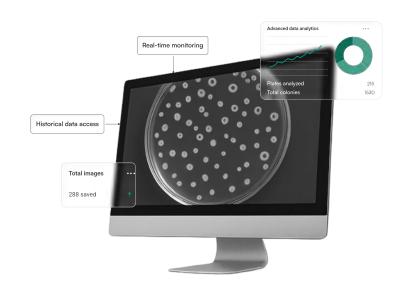
Automated detection of fluorescent & nonfluorescent colonies Total colony count 461 100% Dark nonfluorescent colonies Dark nonfluorescent count count count count 249 54.01%

Automated Traceability for Culture & Sensitivity (C&S) Testing

Our system enables real-time oversight of laboratory work, from specimen processing through culture reading and sensitivity testing, with full traceability and digital audit trails. Built-in workflow analytics enhance productivity, ensure accuracy, and maintain consistency across every step.

Culture Reading (C):

- Automated colony counting (CFUs)
- Recognition of discrete vs. confluent colonies
- Interpretation of hemolysis patterns (BAP)
- Differentiation of lactose fermenters vs. nonfermenters (MacConkey)
- Detection of species-specific color reactions (chromogenic media, XLD/Hektoen, MSA, Candida plates)
- Identification of mixed vs. pure cultures



Sensitivity Reading (S):

- Automated measurement of zone diameters around Kirby-Bauer diffusion disks.
- Translation of zone sizes into S / I / R categories using CLSI/EUCAST standards.
- Digital records of plate + disk images for audit trails and LIS reporting.

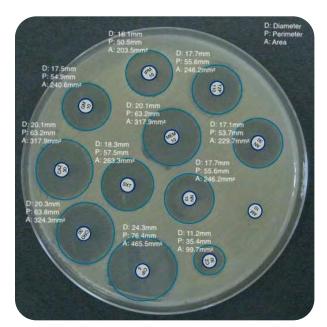
Specimen Types and Culture Media

Supported specimens

Blood, Urine, CSF, Sterile fluids (peritoneal, synovial, etc.), Respiratory samples (throat, nasal, sputum, BAL), Wounds, pus, abscess aspirates, tissue biopsies, Stool (enteric pathogens), Vaginal swabs

Supported media

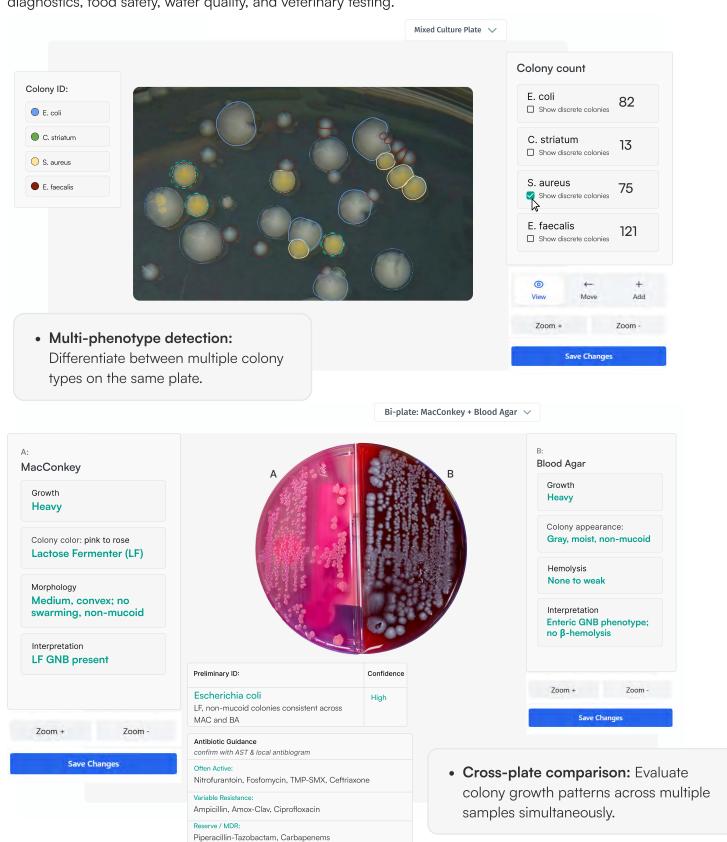
BAP (hemolysis), MacConkey (lactose fermentation), Chocolate (fastidious organisms), MSA (staphylococci), XLD / Hektoen (enteric pathogens, H₂S production), Campy agar (Campylobacter, stool cultures), Chromogenic plates (UTI, MRSA, VRE, Candida), Sabouraud (yeasts, molds), TSA (total viable count), Kirby-Bauer plates with antibiotic disks



Antimicrobial susceptibility resistance diffusion test

The CellBot - One Solution, Multiple Applications

The CellBot software is compatible with diverse microbiological applications: clinical diagnostics, food safety, water quality, and veterinary testing.



All-in-One Solution for Accurate Colony Analysis

The CellBot system comes as a fully integrated solution, combining compact hardware with intuitive software for industry-leading Limit of Detection of 0.01 mm and efficient colony enumeration.

Key Benefits

- Fully synchronized hardware and software for streamlined colony counting.
- Supports a wide range of specimen types and media.
- Audit-ready data storage compliant with regulatory standards.



CellBot ECON throughput: 30 plates/hour CellBot PRO throughput: 120 plates/hour

Limit of detection: 0.01mm

Size: 16in x 13in x 13in

FDA Compliant

Our system maintains FDA 21 CFR Part 11 compliance, ensuring accuracy without compromising sensitive results. The AI model is fixed and generates repeatable results, with full audit logs securely stored and accessible at any time.











IN ACCORDANCE WITH









Data Privacy of the Patient

At CheckCells, Inc., patient privacy and Al safety are of paramount importance. Sensitive data remains securely stored within the laboratory and never leaves its environment. They are not shared externally and are never used to train or adapt our foundational Al models. This ensures strict confidentiality while allowing laboratories to benefit from safe, advanced, and reliable Al insights.