



Fusion Bacteriology Suite

Gram stain solution

An AI-assisted screening tool that aims reduce the time, effort and cost of Gram analyses. It may be used to identify various bacteria, cells, and yeasts in Gram stained slides.

Increased accuracy and efficiency

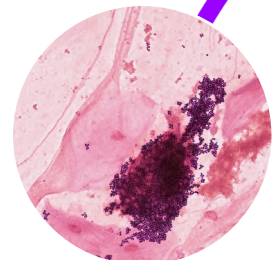
Techcyte's Gram stain solution is an assistive screening tool that is designed to help technologists read bacteriology slides more efficiently and accurately using our AI-based algorithm, lab-optimized workflow, and LIS integration.

Manual method

- ✓ Time consuming analysis via microscope
- ✓ Eye strain, fatigue, distractions
- ✓ Physical slide storage & disposal
- ✓ Intense workloads and operator bias

Techcyte solution

- ✓ Permanent digital record
- ✓ Rapid slide retrieval
- ✓ Relevant images presented for review
- ✓ Digital review reduces microscope time



How it works

Our Gram stain solution utilizes Gram stained slides scanned by a validated whole slide image scanner. Once slides are digitized, our AI algorithm identifies diagnostically significant bacteria or other objects of interest. This whole process takes just minutes.

The results are then presented to a trained technologist for review. Each result can be verified, as the technologist reviews FOVs, object images, and prevalence scores. Results can be saved for secondary review, or automatically sent to the laboratory information system.

Our 4-step process



Create slides



Scan slides



AI analysis

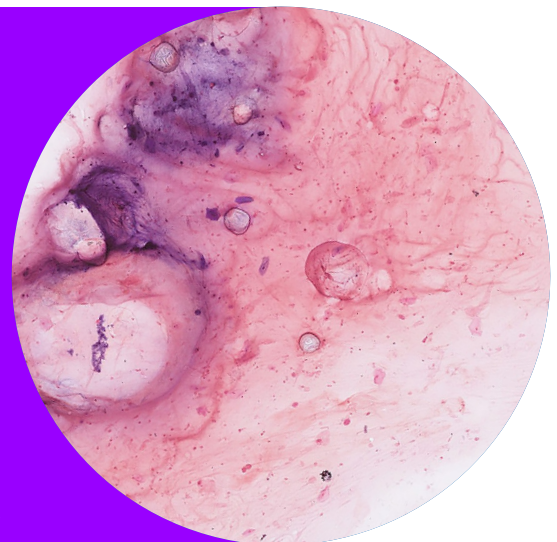


Technologist review

Sample types *

- Altered skin/wound swabs
- Biopsies/tissue/aspirates
- Bronchoalveolar lavage
- Body fluids
- Cerebrospinal fluid
- Ear, nose, & throat
- Genitourinary
- Pus
- Respiratory
- Synovial fluid

* these have not been examined by the FDA



Compliance



Features

- State-of-the-art Unified Pathology AI Platform
- Quick location and retrieval of slides while working on the corresponding culture
- Presents low power (10X) FOV and “smart” high power (100X) FOV placed where objects of interest are concentrated
- Digital archiving & storage of slides
- AI-proposed images of bacteria and objects of interest, grouped by class and sorted by confidence
- Automatically calculates presence, prevalence, and predominance of bacteria and yeast
- Open API allows for full digital LIS integration
- Automatically detects sample rejection criteria



Benefits

- ✓ May improve accuracy, efficiency and consistency
- ✓ Aims to facilitate more consistent results between reviewers
- ✓ Rapidly correlates results with the culture
- ✓ Eliminates the need to store 14 days of slides
- ✓ Permanent record of gram stain analysis
- ✓ Can improve workplace ergonomic condition
- ✓ Facilitates collaboration and enables remote work

**Questions? Interested in a demo?
Contact us today. We'd love to talk.**

techcyte.com | sales@techcyte.com | +1 888-878-3249