



QC-Slide™ Gram Stain Control

INTENDED USE

Remel QC-Slide™ Gram Stain Control is a specially designed, unstained, ready-to-use microscope slide containing dried suspensions of known bacteria. The slides are intended to be part of a quality control program to monitor microbiological stains and staining techniques used in the Gram stain procedure.

PRINCIPLE

Clinical laboratory regulatory agencies and Good Laboratory Practice regulations require quality control programs. The performance of equipment, reagents, methods, and techniques must be monitored and documented. QC-Slide™ Gram Stain Control is a control slide for use with the Gram stain, eliminating the need to maintain in-house stock cultures for preparing slides.¹⁻⁶

Each QC-Slide™ Gram Stain Control contains one circle of heat-fixed gram-positive control organism (*Staphylococcus aureus*) and one circle of heat-fixed gram-negative control organism (*Escherichia coli*).

PRECAUTIONS

This product is for Laboratory Use only and should be used by properly trained individuals. Precautions should be taken against the dangers of microbiological and sharps hazards by properly sterilizing and disposing of specimens, containers, microscope slides, and media after use. Directions should be read and followed carefully.

STORAGE

This product is ready for use and no further preparation is necessary. Store product in its original container at room temperature until used. Do not freeze or expose to excessive heat.

PROCEDURE

A variety of stains and reagents can be used to perform a Gram stain. An example of one procedure follows:

1. Place slide on a flat surface, such as a staining rack over a sink.
2. Flood with Gram Crystal Violet (REF R40053) and let stand for one minute.
3. Wash off excess stain gently with water and drain.
4. Flood with Gram Iodine (REF R40057) and let stand for one minute.
5. Remove Gram Iodine by gently rinsing with water and drain.
6. Hold QC-Slide™ Gram Stain Control at a slight angle and gently rinse with Gram Decolorizer (REF R40055) until the decolorizer flows colorless from the slide.
7. Wash with water to remove excess decolorizer.
8. Flood with Gram Safranin (REF R40059) and let stand 30-60 seconds.
9. Wash off Gram Safranin with water and blot off excess water.
10. Examine microscopically under an oil immersion lens (1000 X magnification).

INTERPRETATION

- Positive Control - Purple-black cocci in clusters (gram-positive)
- Negative Control - Red bacilli (rods) (gram-negative)

QUALITY CONTROL

All lot numbers of QC-Slide™ Gram Stain Control have been analyzed to verify contents. Quality control testing should be performed in accordance with established laboratory procedures. If aberrant quality control results are noted, test results should not be reported.

LIMITATIONS

1. The QC-Slide™ Gram Stain Control is intended as a stain and staining technique control slide, not as a teaching slide.
2. To avoid erroneous results, always use a separate, clean glass microscope slide for test samples or other material being tested. Never place test material on the QC-Slide™ Gram Stain Control.
3. Excessive heating will cause atypical staining.⁵




BIBLIOGRAPHY

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2. Murray, P.R., E.J. Baron, J.H. Jorgensen, M.L. Landry, and M.A. Pfaller. 2007. Manual of Clinical Microbiology. 9th ed. ASM Press, Washington, D.C.
3. Hucker, G.J. and H.J. Conn. 1927. N.Y. Agr. Exp. Sta. Tech. Bull. 128:1-34.
4. Joklik, W.K., H.P. Willett, and D.B. Amos. 1984. Zinsser Microbiology. 18th ed. Appleton-Century-Crofts, Norwalk, CT.
5. Lillie, R.D. 1977. H.J. Conn's Biological Stains. 9th ed. Williams and Wilkins, Baltimore, MD.
6. Isenberg, H.D. 2004. Clinical Microbiology Procedures Handbook. 2nd ed. ASM, Washington, D.C.

PACKAGING

- REF R40140, QC-Slide™ Gram Stain Control 10 Slides/Pk
- REF R40142, QC-Slide™ Gram Stain Control 45 Slides/Pk

Symbol Legend

REF	Catalog Number
IVD	In Vitro Diagnostic Medical Device
LAB	For Laboratory Use
	Consult Instructions for Use (IFU)
	Temperature Limitation (Storage Temp.)
LOT	Batch Code (Lot Number)
	Use By (Expiration Date)

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