

Version 2 Last updated 27 June 2018

ab150672 Gram Stain Kit (Microorganism Stain)

For the histological differentiation of Gram-Positive and Gram-Negative bacteria.

This product is for research use only and is not intended for diagnostic use.

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1. Overview

Gram Stain Kit (Microorganism Stain) (ab150672) is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

Staining Interpretation:

Gram Positive Bacteria	Blue
Gram Negative Bacteria	Red
Other Tissue	Yellow
Nuclei	Red

2. Materials Supplied and Storage

Store kit at room temperature immediately on receipt and check below for storage for individual components. Kit can be stored for 1 year from receipt.

Keep away from open flame and refer to the safety datasheet.

Item	Quantity	Storage temperature (before prep)
Gentian Violet Solution	125 mL	RT
Lugol's Iodine Solution	125 mL	RT
Gram's Decolorizer Solution	125 mL	RT
Carbol Fuchsin Counterstain	125 mL	RT
Tartrazine Solution	125 mL	RT

3. Materials Required, Not Supplied

These materials are not included in the kit, but will be required to successfully perform this assay:

- Xylene or xylene substitute.
- Absolute alcohol.
- Distilled water.

4. General guidelines, precautions, and troubleshooting

Please observe safe laboratory practice and consult the safety datasheet.

For general guidelines, precautions, limitations on the use of our assay kits and general assay troubleshooting tips, particularly for first time users, please consult our guide:

www.abcam.com/assaykitguidelines

For typical data produced using the assay, please see the assay kit datasheet on our website.

5. Staining Protocol

- Equilibrate all materials and prepared reagents to room temperature just prior to use and gently agitate.

- 1. Deparaffinize sections if necessary and hydrate in distilled water.
- 2. Apply adequate Gention Violet Solution to completely cover tissue section and incubate for 1 minute.
- 3. Rinse slide in distilled water to remove excess stain.
- 4. Apply adequate Lugol's Iodine Solution to completely cover tissue section and incubate for 1 minute.
- 5. Rinse slide in running tap water to remove excess iodine.
- 6. Place slide in Gram's Decolorizer until color no longer bleeds off section.
- 7. Rinse slide quickly in distilled water.
- 8. Apply adequate Carbol Fuchsin to completely cover tissue section and incubate for 1-2 minutes.
- 9. Rinse slide quickly in distilled water to remove excess stain.
- 10. Apply Tartrazine Solution and incubate for 15 seconds.
- 11. Rinse slide one time in absolute alcohol.
- 12. Dehydrate slide quickly in three changes of absolute alcohol.
- 13. Clear in two changes of xylene or xylene substitute and mount in synthetic resin.

6. FAQs / Troubleshooting

General troubleshooting points are found at www.abcam.com/assaykitguidelines.

7. Notes

Technical Support

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