

PRODUCT CODE

BS005

APPLICATION

Bacteria are divided into two categories, depending on whether they can be decolorized with Gram's Decoloriser after staining with Crystal Violet and treating with Iodine. Gram's Stain is used to differentiate between Gram Positive and Gram Negative bacteria.

REAGENT COMPOSITION

| | | |
|----|---------------------------------------|------|
| 1. | Gram's Crystal Violet(Methyl Violet) | 0.5% |
| 2. | Gram's Iodine (Lugol's Iodine) | |
| | - Potassium Iodide | 2.0% |
| | - Resublimed Iodine | 1.0% |
| 3. | Gram's Decoloriser | |
| | - Methanol | 80% |
| | - Acetone | 20% |
| 4. | Gram's Safranin (Counter Stain) | 1.0% |

REAGENT PREPARATION

All reagents are ready to use. It is recommended to filter all stain before use.

REAGENT STORAGE AND STABILITY

All reagents are stable up to the stated expiry date when stored at 15-25° C. Keep tightly closed to prevent air oxidation









PROCEDURE

- 1- Stain heat fixed smears with Gram's Crustal violet for 1 minute.
- 2- Wash off with tap water and flood slide with Gram's Iodine for 2 minutes.
- 3- Wash off with tap water and decolorize smear with Gram's Decoloriser for a few seconds only.
- 4- Wash well in tap water and counter stain with Safranin for 2 minutes.
- 5- Wash with tap water and allow drying.
- 6- Examine under microscope using oil immersion objective.

RESULTS

| | | |
|------------------------|---|-------------|
| Gram Positive bacteria | - | Blue/ Black |
| Gram Negative bacteria | - | Red |

SYMBOLS ON LABELS

| | |
|---|---|
|  IVD in vitro diagnostics |  manufacturing date |
|  LOT lot number |  expiry date |
|  REF catalogue number |  manufacturer |
|  temperature limit |  instruction for use |

BIBLIOGRAPHY

1. Gram. C (1884) Fortsch.Med.2185-189.
2. Lamanna and Mallette, 1965, Basic Bacteriology, 3rd ed., Williams and Wilkins Co. Baltimore.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.