

This procedure is available in kit form from:
Poly Scientific R&D Corp.
70 Cleveland Avenue • Bay Shore, NY 11706
(631) 586-0400

cat# cy007

GRAM STAIN PROCEDURE

SOLUTIONS:

1. Crystal Violet Hucker's
2. Lugol's Iodine Working Solution
3. Neutral Red 1% Aqueous

STAINING PROCEDURE:

Note: Begin with step 1 for paraffin sections, step 3 for smears or step 4 for air dried smears.

1. Deparaffinize with Xylene, 2 changes for 5 minutes each.
2. Hydrate through Absolute Alcohol, 95%, 80%, and 70% Alcohols, 2 changes and 15 dips each.
3. Wash in distilled water, 15 dips.
4. Stain in Crystal Violet Hucker's for 1 – 2 minutes.
5. Wash in tap water – 10 dips.
6. Place in Lugol's Iodine Working Solution for ½ - 1 minute.
7. Wash in tap water – 10 dips.
8. Place in Acetone for 10 – 15 dips.
9. Wash in running tap water for 5 – 10 minutes.
10. Counterstain in Neutral Red 1% Aqueous for ½ - 1 minute.
11. Wash in two changes of tap water – 15 dips each.
12. Hydrate in Ethyl Alcohol 95% and Absolute Alcohol, two changes each – 15 dips.
13. Clear in Xylene, 2 changes, 15 dips each.
14. Mount with Poly Mount (cat# s2153) or any other acceptable mounting medium.

RESULTS:

Gram Positive Organisms Blue Black
Gram Negative Organisms.....Red
Background..... Pink