

Gram Staining Technique Applied to Yeast

1. Stir Yeast culture and place a drop on a clean, degreased slide; smear.
2. Air dry.
3. Fix by 'flaming'.
4. Stain with crystal (or gentian) violet, 2% alc. (1 min.)
5. Rinse quickly and gently with water.
6. Cover with Gram's iodine (for mordanting). (2 min.).
7. Rinse quickly and gently with water.
8. Differentiate: Add iodine alcohol* and leave until the alcohol coming off the smear is only slightly coloured.
9. Rinse quickly and gently with water.
10. Counterstain with safranin, 0.5% aq. (5 min.)
11. Differentiate with 5% alcohol.
12. Rinse in water.
13. Air dry.
14. Mount in resin, such as "Practamount".

Stages in green are optional.

* Abs. alcohol is used here. However, the action is very rapid and difficult to control; the addition of some iodine to the alcohol slows down the differentiation process.

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