

PRODUCT CODE

BS013

APPLICATION

Malachite Green 1% w/v is used as staining solution in spore staining and simple staining.

PRINCIPLE AND INTERPRETATION

Malachite Green is used for bacterial spore staining by Schaeffer and Fulton's method. It can also use as a simple stain for bacterial cells and in place of methyl green in the Pappenheim stain, when combined with Gram stain.

In the Schaeffer and Fulton's method, primary stain malachite green is forced into the spores by steaming the bacterial emulsion. Malachite green is water soluble and has low affinity for cellular material so; vegetative cells may be decolorized with water.

Vegetative cells are then counterstained with Safranin. Spores may be located in the middle of the cell, at the end of the cell or between the end and middle of the cell. Spores may be spherical or elliptical.

REAGENT COMPOSITION

Malachite Green	1%
Deionized Water	100 mL

PREPARATION

Ready to use solution. Filter all stain before use.

REAGENT STORAGE AND STABILITY

Malachite Green aqueous solution is stable up to the stated expiry date when stored at 15-25° C.















PROCEDURE

- 1- Prepare a smear on a clear, dry glass slide.
- 2- Allow it to air dry and fix it with gentle heat by Bunsen burner.
- 3- Put filter paper on the slide you fix.
- 4- Flood the slide with 1% w/v Malachite Green for 3 min.
- 5- Heat the slide with filter paper on Bunsen burner (The smear area must be kept wet). Until the stain begins to steam or boil remove the heat.
- 6- Wash in slow-running tap water.
- 7- Then Stain with (Safranin) few drops for 30 sec.
- 8- Wash with water, blot dry and examine under oil immersion objective.

RESULTS

Spores are seen as green spherules in red stained rods or red stained debris.

SYMBOLS ON LABELS

Symbols	Signify	Symbols	Signify
	Catalogue Number		Pack Size
	Expiry Date		Volume
	Storage Condition		Lot Number
	Instruction for Use		In Vitro Diagnostics
	Manufacturing Date		Manufacturer
	Number of Tests		For Single Use Only
	EC Representative		European conformity

BIBLIOGRAPHY

Text book of medical technology, Praful B.Godkar, 2nd Edition, p525

