

CRYSTAL VIOLET

METHOD – STAIN
PRODUCT CODE – ST 40



INSTRUCTIONS FOR USE

INTENDED USE: Staining Solution for BACTERIA.

SUMMARY AND EXPLANATION

Crystal Violet is used as staining solution for monochrome staining of microbes.

PRINCIPLE

Crystal Violet is used as a simple stain where it can render the organisms violet. Besides this it can also be used in the Gram staining for distinguishing between gram-positive and gram-negative organisms.

REAGENTS

Crystal Violet Crystal Violet.

PRECAUTIONS

This product is for in Vitro diagnostics use and should be used by properly trained individuals. Precautions should be taken against the dangers of microbiological hazards by properly sterilizing specimens, containers and media after use. Directions should be read and followed carefully.

STORAGE

Store product in its original container at room temperature until used. Keep container tightly closed during storage.

PRODUCT DETERIORATION

This product should not be used if:

1. The color has changed.
2. The expiration date has passed.
3. There are other signs of deterioration.

MATERIALS REQUIRED BUT NOT SUPPLIED

1. Glass slides.
2. Metal Loop.
3. Quality control slides.
4. Microscope with oil immersion lens.
5. Immersion oil.
6. Spirit Lamp

SPECIMEN COLLECTION AND PREPARATION

SPECIMAN COLLECTION : Blood, urine, CSF, pus, wounds, lesions, body tissues, sputum .

REAGENT PREPARATION: The reagent is Ready-To-Use.

PROCEDURE

1. Prepare a smear on a clear, dry glass slide.
2. Allow it to air dry and fix with gentle heat.
3. Flood the slide with Crystal Violet.
4. Allow the stain to be in contact with the smear for 1-2 minutes.
5. Wash in slow-running water, just enough to remove excess of dye.
6. Flood the smear with Iodine, drain and flood again with Iodine for 1 minute.
7. Wash with decolourizer (alcohol) for about 5-15 seconds. Wash

the slide to stop the action of decolourizer.

8. Flood with safranin for 1 minute, wash very lightly.
9. Blot dry and examine under oil immersion objective.

RESULTS AND INTERPRETATION

Refer to appropriate references for appearance of specimen smears.

RESULTS

Gram-positive organisms : Violet coloured
Gram-negative organisms : Pinkish red coloured

QUALITY CONTROL

All lot numbers Crystal Violet have been tested and found to be acceptable. The patient smear can serve as quality control to verify the efficacy of the staining reagents. In addition, a smear made from a patient specimen (previously identified as positive) with at least one parasite per oil immersion field may also be included to verify differential staining characteristics and compare with specimen stain results. If aberrant quality control results are noted, patient results should not be reported.

BIBLIOGRAPHY

1. Lamanna and Mallette, 1965, Basic Bacteriology, 3rd ed., Williams and Wilkins Co., Baltimore.

SYMBOLS:



Read Instruction for use



In Vitro Diagnostic Use Only



Manufactured by



Expiry Date



Storage Temperature

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ISO 9001 : 2015
ISO 13485 : 2003
GMP
CE