



PRODUCT SPECIFICATION SHEET

Lugol's Iodine (SI022)

Use

Lugol's iodine is used as staining solution to detect intestinal protozoa and helminth ova or larvae.

Principle

Lugol's iodine is intended to be used for the detection of intestinal protozoa and helminth ova or larvae in wet mount preparations and concentration techniques. It is non-specific rapid contrast dye that is added to direct wet mounts of fecal material to aid in differentiating parasitic cysts from host white blood cells. Many protozoa and cysts take up dye and appear brown while other objects in the sample remain clear. Lugol's iodine stain the protozoan nuclei and intracytoplasmic organelles brown making them easier to identify. Dilution is necessary prior to use as strong iodine solutions tend to coagulate fecal particles and destroy the refractile nature of protozoan organisms. For fresh, unpreserved fecal samples, a direct wet mount should be prepared to detect the presence of motile protozoan trophozoites.

Formula

Ingredients	Gms/Litre
Iodine crystal	10.00gm
Pottassium Iodidide	20.00gm
Distilled water	1000.0ml

Formula may be adjusted and/or supplemented as required to meet performance specifications

Storage And Stability

Store below 30°C in tightly closed container and away from bright light. Use before expiry date on label.

Procedure

- 1) Dilute Lugol's iodine 1:5 with sterile de-ionized water prior to use. (This is working solution should be freshly prepared approximately every 3 weeks)
2. Prepare a direct smear of the specimen by mixing a small portion (2mg) of feces with a drop of sterile physiological (0.85%) saline on a clean dry glass slide.
3. Place a coverslip over the sample and examine the wet mount preparation for the presence of motile protozoa. The organisms are very pale and transparent and are more easily observed under low light intensity.
4. After thorough examination of wet mount has been a drop of Lugol's iodine (working solution) can be placed at the edge of coverslip, or a new mount can be prepared using iodine alone. The prepared slides can be sealed if desired.
5. Examine the slides for the presence of brown parasitic structure.

PRECAUTIONS

1. For Invitro Diagnostic use only
2. Product to be used only by adequately trained and qualified laboratory personnel.





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QUALITY CONTROL

Appearance: Dark reddish brown, colored solution.

Microscopic Examination

Staining of intestinal protozoa is carried out and staining characteristic of organisms is observed under microscope by using oil immersion lens.

Packaging

Product Name : Lugol's Iodine
Product Code : SI022
Available Pack sizes : 500ml/125ml


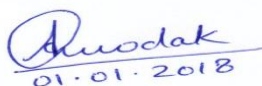

Further Information

For further information please contact your local MICROMASTER Representative.



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