



Fusion Parasitology Suite

Sample & Slide Preparation

Wet Mount Iodine Solution

The Solution

Techcyte's Wet Mount Iodine solution is an assisted screening tool that is designed to help lab technologists read wet mount iodine stained slides more efficiently and accurately using our AI-based algorithm, lab-optimized workflow, and LIS integration.

1. Prepare Samples

Shake or vortex the incoming preserved sample to thoroughly mix. Transfer either **2ml (US Gold Standard)** or **3ml (ARUP JCM)** of the emulsified stool into the Mini Parasep® SF mixing chamber.

In the event of:

Thick Stool Samples: Add 10 drops of Triton X, then enclose and shake or vortex to emulsify prior to transferring the sample.

Liquid Stool Samples: Add 4ml (instead of 2ml or 3ml) to ensure that a sediment is formed after centrifugation is performed.

2. Emulsification

Seal the Mini Parasep® SF by screwing in the filter/sedimentation cone unit.



3. Centrifugation

Invert Mini Parasep® SF and perform centrifugation at: 500g for ten minutes (US Gold Standard); 400g for two minutes (ARUP JCM).

NOTE: TO CALCULATE THE REQUIRED RPM FOR ANY CENTRIFUGE

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

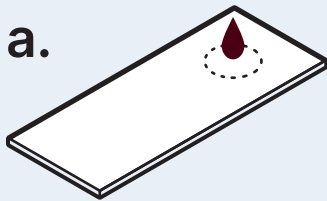
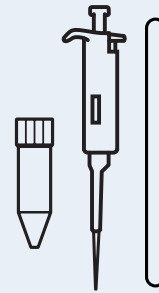
RPM - rotor speed in revs/min.

g - centrifugal force (max.1000g)

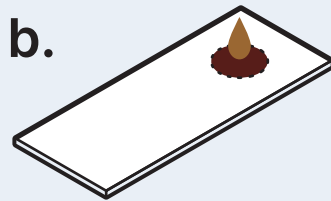
r - radius, horizontal distance between sedimentation cone tip and spindle center measured in mm.

4. Apply sample to slide

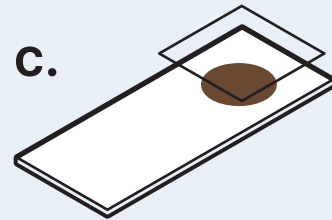
Unscrew and discard the filter and mixing tube. Decant the supernatant. Using the slide template, provided on the last page of this guide, place the mounting media and fecal sample using the following instructions:



a. Transfer a 20µl of mounting media to one end of a microscope slide, roughly 1-2 cm from the edge.*



b. Transfer 15 µl of the stool sample onto the mounting media and mix together using the tip of the pipette.



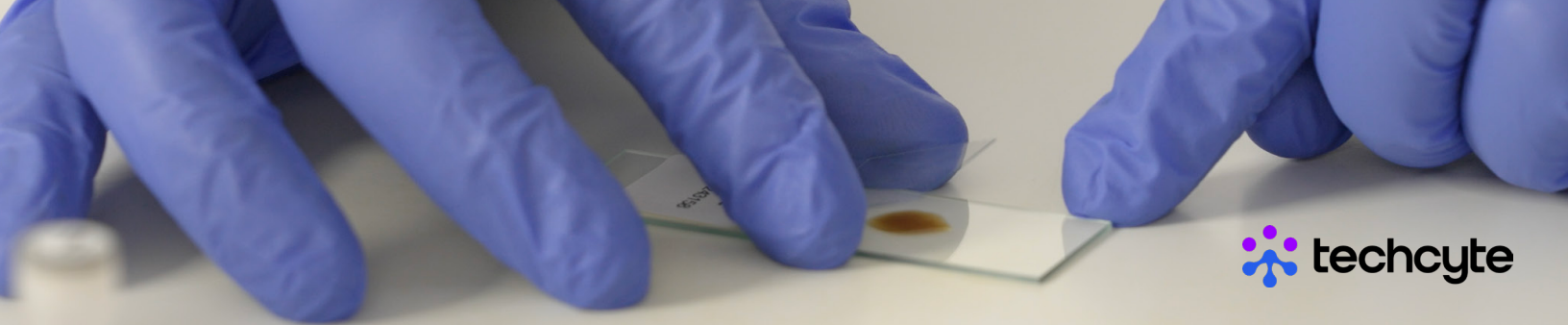
c. Apply the coverslip to the slide. If needed, gently tap out any air bubbles and spread the sample material with a clean wooden stick.

* Prepare the mounting media according to the help documentation found on app.techcyte.com

7. Scan Slide

Scan the slide with the appropriate scan profile on the whole slide scanner.





Slide Template