

For Veterinary Use Only

StatSpin® OvaTube®

INSTRUCTIONS FOR USE DEVICE FOR FECAL PARASITE OVA DETECTION Product Number SSOT-50

INTENDED USE

For use in veterinary hospitals, clinics, and reference laboratories to process fecal samples for detection of parasite ova.

SUMMARY

Centrifugal floatation is recommended by the Companion Animal Parasite Council (CAPC) as the preferred method for routine screening of fecal samples for detection of parasite ova. CAPC recommends fecal examinations be performed 2 to 4 times during the first year of life and 1 to 2 times per year in adult pets.

Centrifugation of fecal samples allows quicker and more effective separation of ova compared to simple (gravity) floatation. Centrifugation forces heavy debris to the bottom of the tube, allowing floatation of ova while preventing debris from obscuring the microscopic examination. Centrifugal floatation is consistently more sensitive in detecting ova as compared to simple floatation.¹

The StatSpin OvaTube is a single-use device for centrifugal floatation of parasite ova. Standard floatation fluids may be used. (Table 1) Fecal samples are collected, mixed with floatation fluid, and centrifuged all in the same device. It is compatible in most centrifuges with either a fixed angle or horizontal rotor. OvaTube offers a much simpler and less messy procedure than the standard centrifugal method and provides comparable accuracy.

Table 1

Floatation Fluid ²	Density
Magnesium Sulfate	1.32
Sodium Chloride	1.2
Sodium Nitrate	1.2-1.33
Sucrose	1.25
Zinc Sulfate	1.18

CONTENTS

1. 50 Tubes
2. 50 Mixers
3. 50 Filters

SAMPLE PREPARATION

The OvaTube Mixer collects approximately 1 gram of formed feces. Slurry-like or liquid samples may be poured directly into the Tube up to the fill line (continue to step 5 of procedure). For hard samples, floatation fluid may be added to the sample to soften it (continue to step 1 of procedure).

PROCEDURE

1. Add floatation fluid to fill line on Tube. (Figure 1)

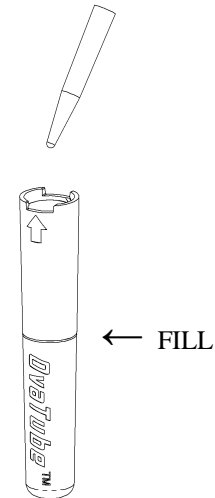


Figure 1

2. Push bottom end of Mixer into fecal sample to collect approximately 1 gram. (Figure 2)

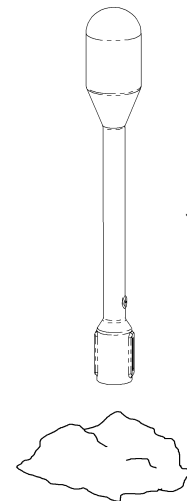


Figure 2

3. Insert Mixer into Tube with floatation fluid. Turn Mixer back and forth while gently squeezing bulb in and out until sample is well-mixed. (Figure 3)

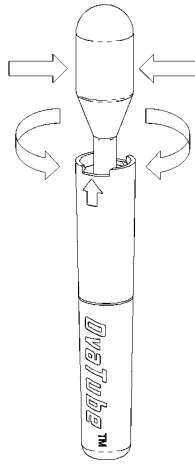


Figure 3

4. Squeeze bulb to expel remaining sample into Tube. Discard Mixer.
5. Insert Filter into Tube, aligning tab on Filter with notch on Tube. Slightly twist Filter clockwise to position tab in groove on inside of Tube, taking care not to turn Filter all the way into Tube. Add floatation fluid to fill line on Filter. (Figure 4)

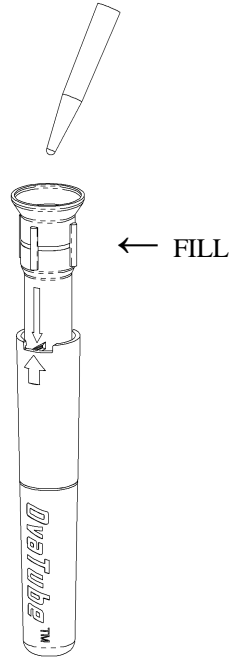


Figure 4

6. Insert Tube into centrifuge. Spin for 5 minutes at 1200-1500 rpm (horizontal rotor) or 3000-3500 rpm (fixed angle rotor).
7. Transfer Tube to rack. Place coverslip on Filter. Turn Filter clockwise until floatation fluid touches underside of coverslip. (Figure 5)

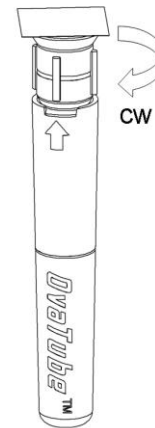


Figure 5

8. After 3 minutes, transfer coverslip to slide for microscopic examination. Discard used Tube.

LIMITATIONS

OvaTube is intended for veterinary use only. Not for human use.

REFERENCES

- 1 Companion Animal Parasite Council (CAPC). 2009. www.capcvet.org.
- 2 Zajac, A.M. and Conboy, G.A. 2006. Veterinary Clinical Parasitology, 7th ed. Blackwell Publishing, Ames, IA.



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