Quick Guide

Trichin-L

Trichinella Antigen Test Kit

357-2120

1. Collection and Preparation of the Sample

Tissue Sampling

- **Domestic swine**

Pillar of the diaphragm	1 g to 1.15 g
Diaphragm, masseter or tongue	2 x 1 g

- **Breeding sows and boars**

Pillar of the diaphragm	2 x 1 g
Diaphragm, masseter or tongue	4 x 1 g

Preparation of the Digestion Buffer

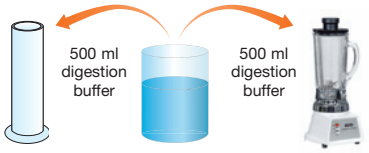
- Prepare 2 L of tap water pre-heated to 46-48°C in a 3 L beaker
- Add 16 ml of 25% HCl (0.2% final) and 10 ± 1 g of pepsin (0.5% final)
- Incubate at 46-48°C while stirring

Meat Chopping

- Add 100 - 115 g of pooled meat and 150 ml of digestion buffer (1:1.5 mass/vol.)
- Mix 20 seconds at 18,000 rpm (speed 1)

Note: only 10 seconds for prechopped samples used for ring trials

Pepsin Digestion



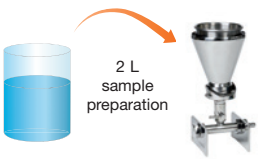
- Keep 500 ml of digestion buffer in a graduated cylinder
- Pour 500 ml of digestion buffer into the blender bowl

- Pour sample homogenate (~750 ml) into the 3 L beaker

- Carefully rinse the blender bowl with 500 ml of digestion buffer kept in the graduated cylinder. Pour the rinsing liquid into the 3 L beaker
- Incubate 30 minutes at 44-46°C while stirring

Switch ON the filtration pump few seconds before stopping the sample digestion

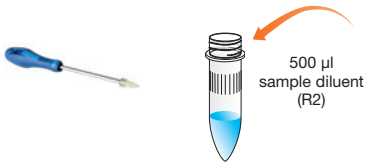
Filtration



- Pour the sample preparation (2 L) into the filtration ramp through the filtration membrane

Note: rinse the 3 L beaker with at least 250 ml of warm water

Antigen Solubilization



- Using forceps, remove the filtration membrane from the filtration ramp. Fold it in four then push it at the bottom of a 15 ml Falcon® tube with the pestle
- Crush the filtration membrane with the pestle (20 back and forth movements)
- Add 500 µl of sample diluent (R2). Thoroughly mix the *Trichinella* antigens with short back and forth movements (30 seconds)

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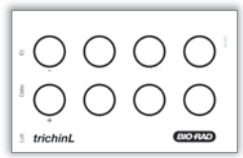
2. Detection

Dispensing Samples & Controls



- **Samples & controls**
  2 drops (50 µl) of negative control in well "-"
  2 drops (50 µl) of positive control in well "+"
  50 µl of sample #1 in well #1
  50 µl of sample #2 in well #2, etc.

- **Conjugate**
  1 drop (25 µl) of latex beads (R7) in each well
  Mix the conjugate and sample/control drops with a stick

  Note: Carefully homogenize latex beads before use (minimum 10 tube inversions or light vortexing)

Rocking

10 min

30 rpm

- Start rocking 10 minutes at maximum speed (~30 rpm)

Reading

- Stop rocking and immediately read the agglutinations

Interpretation of Results

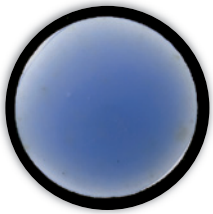


Figure 1

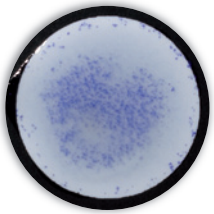


Figure 2

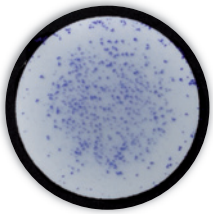


Figure 3

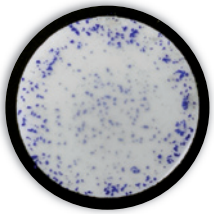


Figure 4

- **Negative reaction**: the suspension remains blue and homogenous (see figure 1). Compare with the negative control

- **Positive reaction**: formation of bead aggregates (see figures 2, 3 and 4). The sample contains *Trichinella* antigens.

See ***Trichin*-L** kit insert for further details on the interpretation of results.

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