



# Gelmate Test Kit

The Gelmate Test Kit is for the detection of acute and chronic inflammation in farm animals.



Used for the semiquantitative estimation of acute or chronic inflammation in:

- Beef Cattle
- Dairy Cattle
- Horses

## HOW IT WORKS

The higher the concentration of inflammatory proteins, mainly gamma-globulin and fibrinogen, the quicker the formation of a solid clot when whole blood is added to the reagent. Each tube contains specially stabilized glutaraldehyde, EDTA and wetting agent.

## DIRECTIONS

1. Use whole blood (fresh or with EDTA anticoagulant).
2. Add 1 ml of whole blood to the Gelmate test tube.
3. Invert tube to ensure mixing and note time.
4. Tilt tube at 2, 5, and 10 minutes. When blood no longer flows, invert tube and gently tap. The clot should remain firmly in place.
5. End point is the formation of a firm clot. **If this occurs in:**
  - **<5 minutes:**  
There is significant inflammation
  - **5-10 minutes:**  
There is moderate inflammation

## Typical fibrinogen and gammaglobulin levels:

<b>Fibrinogen</b>	>400 mg/dl	<b>OR</b>	<300 mg/dl
<b>Gammaglobulin</b>	>2700 mg/dl		>4000 mg/dl

History of the patient is important as inflammation within a few weeks of testing may result in a positive result even if the problem has resolved.

## Examples of conditions causing elevations in inflammatory proteins:

- Pleurisy
- Internal abscesses
- Peritonitis
- Traumatic reticuloperitonitis

False readings may occur with severe anemia or severe dehydration.

## STORAGE

Store your Gelmate Test Kit at 4°C. Do not freeze or leave tubes in the hot sun or vehicle.

**CAUTION:** The reagent, glutaraldehyde, inside the Gelmate tubes is caustic—if skin or eye contact occurs, wash with copious amounts of water and consult a physician.

