



# Gelmate Test Kit

## FOR THE SEMIQUANTITATIVE ESTIMATION OF ACUTE OR CHRONIC INFLAMMATION

### WHEN TO TEST FOR IgG LEVELS

The Gelmate Test Kit is for the detection of acute and chronic inflammation in farm animals. The higher the concentration of inflammatory proteins, mainly gammaglobulin 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 1ml of whole blood to the **Gelmate Test Kit** tube.
3. Swirl tube to ensure mixing and note time.
4. Tilt tube at 2, 5 & 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 gammaglobulin and fibrinogen levels:

#### **Clot <5 Minutes:**

Fibrinogen >400 mg/DL	OR	<300mg/DL
Gammaglobulin >2700 mg/DL		>4000mg/DL

History of the patient is important as inflammation within a few weeks of testing may result in a positive Gelmate 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 (excessive plasma) or severe dehydration (reduced plasma).

\* 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.

\* Do not leave tubes in the hot sun.

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