



PRODUCT DATA SHEET

Product: Rat CRP Reference Serum

Cat. No.: KT-100 (1.0 ml)

Introduction:

Acute phase proteins are plasma proteins which increase in concentration following infection, inflammation or trauma. The first acute phase protein to be recognized was C-reactive protein (CRP). It was so named because of its ability to effect precipitation of somatic C-polysaccharide of *Streptococcus pneumonia*. CRP is synthesized in the liver and is normally present as a trace constituent of serum. The level in serum rises quickly following acute tissue damage. It also falls very rapidly once the stimulus is removed. It has been proposed that the function of CRP is to aid in complement activation, influence phagocytic cell function, and augment cell-mediated cytotoxicity. Investigations over the past few years have shown that quantification of CRP in plasma or serum can provide valuable diagnostic information in the detection, prognosis, and monitoring of disease not only in humans, but in companion animals and farm herds as well.

Format:

1 ml rat C-Reactive Protein reference serum with 0.1% sodium azide. See label for CRP concentration.

Procedure:

Serum was collected from rats of several strains, both sexes and a range of ages with elevated levels of CRP.

Specifications:

The serum forms a precipitin band with rabbit anti-rat CRP by immunoelectrophoresis.

Storage and Stability:

Store at 4°C for short term, and at -20°C for long term. Aliquot to avoid repeated freeze-thaw cycles.

Applications and Suggested Dilutions:

■ ELISA: Use as a reference serum in developing a standard curve for Rat C-Reactive Protein ELISA (KT-099).

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.