**Background**

Quidel guinea pig serum complement is a uniform pool of guinea pig serum that has been characterized for both classical and alternative pathway activity.

Guinea pig serum has been in use from the beginning of the twentieth century to the present for the study of complement activity and its relationship to immunity. The discovery of guinea pigs deficient in specific complement fragments has furthered this research. Guinea pig serum is recommended by both the U.S. and European Pharmacopoeia for testing the anticomplementary activity of immunoglobulin.

**Storage and Handling**

This product should be stored at or below −70°C. When needed, it should be thawed rapidly at 37°C and immediately placed on ice until use. Any remaining sera should be aliquotted into polypropylene tubes in a convenient volume and refrozen at −70°C or below. Avoid repeated freeze thaw. Storage at temperatures warmer than −70°C is not recommended.

**Applications**

Guinea pig serum complement is suitable for *in vitro* experiments relating to complement activation. It has been widely used in biomaterials research and pharmaceutical development. It is ideal for experiments and assays for which a high level of *in vitro* complement activity is necessary or a low level of complement activation fragments is required.

**Specifications**

- Volume/vial: 50 mL
- Concentration: > 40 mg protein/mL
- Activity:* > 100 CH50 units/mL
- > 50 AH50 units/mL
- Form: Frozen Liquid

*CH50 units have been normalized to indicate 50% lysis of 1 x 10^8 cells/mL. AH50 was determined using red blood cells at a concentration of 2 x 10^7 cells/mL.

**References**