



Complement Reagents:

Normal Human Complement Standard

For **Research Use Only**. Not for use in diagnostic procedures

Background

Quidel's human complement standard is a uniform pool of human serum complement that has been characterized for levels and activities of a variety of complement proteins. Unlike lyophilized complement sources, Quidel complement standard maintains high levels of complement hemolytic activity and antigenic integrity. For this reason it is an ideal external standard for a variety of laboratory functional and antigenic assays for specific complement proteins (e.g., CH50, APH50, RID, C3 H50, etc.)

Sera obtained from blood banks and other large pools may not be suitable for many procedures due to high levels of background complement activation. Conversely, in house serum draws are complicated by several factors including the necessity of maintaining standardized pools of complement for ongoing experimentation and the confidentiality requirements with regard to infectious disease testing.

Characterization and Testing/Analysis and Testing

Quidel's Human Complement Standard has been tested for antigenic levels of C1q, C2, C3, C4, C5, C6, C7, C8, C9, Factor B, and Factor H, by Radial Immuno-Diffusion (RID). Functional levels of the complement proteins C1q, C2, C3, C4, C5, C6, C7, C8, C9 and Factor B and Factor D have been determined by standard hemolytic assay. Classical pathway hemolytic activity (CH50) and alternative pathway hemolytic activity (AH50) have also been measured by standard techniques. Levels of the complement fragment iC3b, a measure of C3 B cleavage, were assessed using the MicroVue iC3b EIA kit.

Storage and Handling

This product should be stored at or below -70°C . **Storage at temperatures warmer than -70°C is not recommended.** When needed, it should be thawed rapidly at 37°C and immediately placed on ice until use. Refer to the Certificate of Analysis for this product for specific handling instructions. Any remaining sera should be aliquotted into polypropylene tubes and refrozen at -70°C or below. Avoid repeated freeze thaw.

Applications

This product is intended for use in a research setting as a standard material for complement assays. Protocols for the RID, hemolytic and other assays used in the characterization of this product are available from Quidel Technical Service. This product should not be used in experiments where measurement of *in vitro* complement activation (e.g. complement biocompatibility) is required. Quidel provides Item A113 expressly for use in these applications.

Specifications

Volume/Vial: 1.0 mL

Storage: $< -70^{\circ}\text{C}$

Form: Frozen Liquid

Normal Serum Complement Standard – Cat. #A100

Also available:

MicroVue C3b EIA – Cat. #A006

MicroVue CH50 Eq EIA – Cat. #A018

Normal Human Serum Complement – Cat. #A113

MoAbs to related complement antigens – Cat. #A200s

PoAbs to related complement antigens – Cat. #300s

Purified complement components – Cat. #A400s

