Datasheet for C203-0005

Rabbit ''B'' (1-2 Lbs.) Complement (Lyophilized) With Diluent

Overview

Description:	Rabbit ''B'' (1-2 lbs.) Complement (Lyophilized) with DILUENT - C203-0005
Item No.:	C203-0005
Size:	5 mL
Origin:	Rabbit

Product Details

Background:

The rabbit complement system helps or “complements” the ability of antibodies and phagocytic cells to clear pathogens from an organism. Complement is part of the innate immune system that is not adaptable and does not change over the course of an individual's lifetime. Complement can be recruited and brought into action by the adaptive immune system.

The following are basic functions of complement:

1. Opsonization - enhancing phagocytosis of antigens
2. Chemotaxis - attracting macrophages and neutrophils
3. Cell Lysis - rupturing membranes of foreign cells
4. Clumping of antigen-bearing agents

Synonyms:	Complement system, tissue macrophages, blood monocytes, protease C3-convertase, mannose-binding lectin pathway, cascade cleavage and activation events, recruit inflammatory cells, anaphylatoxin, Serum Bactericidal Assay (SBA), Multiplex opsonophagocytosis assay (MOPA), cytotoxicity and cell depletion assay
Species of Origin:	Rabbit

Target Details

Purity/Specificity:

The complement system consists of a number of small proteins found in the blood, generally synthesized by the liver, and normally circulating as inactive precursors (pro-proteins). When stimulated by one of several triggers, proteases in the system cleave specific proteins to release cytokines and initiate an amplifying cascade of further cleavages. The end-result of this activation cascade is massive amplification of the response and activation of the cell-killing membrane attack complex. Over 25 proteins and protein fragments make up the complement system, including serum proteins, serosal proteins, and cell membrane receptors. They account for about 5% of the globulin fraction of blood serum.

Application Details

Application Note:	pH: normal Immunoelectrophoresis: normal Hemoglobin: normal IgG Concentration: normal Immunoelectrophoresis: normal
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Tissue Data

Tissue Type:	Complement
Sex:	Mixed
Strain:	Rabbit - New Zealand White

Formulation

Physical State:	Lyophilized
Concentration:	85 mg/mL by Refractometry
Sterility:	Non-sterile
Reconstitution Volume:	5.0 mL
Reconstitution Buffer:	Restore with Diluent

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Aliquot contents and freeze at -70° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. COMPLEMENT IS A TEMPERATURE SENSITIVE PRODUCT. IMPROPER STORAGE WILL INACTIVATE COMPLEMENT ACTIVITY.
Expiration:	Expiration date is one (1) year from date of receipt.

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