

Lyophilized Mouse Complement With Diluent

Product Information

Catalog

CT-089M

ProductName

Lyophilized Mouse Complement With Diluent

Short Name

Complement(Mouse)

similar

Complement

Source

Complement

Species

Mouse

Product Overview

Mouse Complement (Lyophilized) With Diluent

Description

The 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
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Form

None

Purity

The mouse complement system consists of a number of small proteins found in the blood, generally synthesized by the liver, and normally circulating as inactive precursors (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.

Applications

Suggested Applications: Other

Applications Notes:

pH: normal; Immunoelectrophoresis: normal; Hemoglobin: normal; IgG Concentration: normal; Immunoelectrophoresis: normal

Storage

Store vial at 4 centigrade prior to restoration. Aliquot contents and freeze at -70 centigrade 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.

Concentration

84 mg/mL by Refractometry

Shipping

Ambient

Reconstitution

Restore with Diluent



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Synonyms

Complement system; tissue macrophages; blood monocytes; protease C3-convertase; mannose-binding lectin pathway; C3; C3a; C3b; C5a; C5b; C6; C7; C8; and polymeric C9; cascade cleavage and activation events; recruit inflammatory cells; anaphylatoxin

Physical State

Lyophilized

Sex

Mixed

Sterility

Non-sterile

Preservative

None

Stabilizer

None

Reference

1. Hijaze Net al. (2020). Inducing regulated necrosis and shifting macrophage polarization with anti-MMP13 antibody (161-pAb) and complement factors. J Leukoc Biol.

Expiration

Expiration date is one (1) year from date of receipt.