

Name:	Normal Cynomolgus Monkey Serum
Catalog Number:	NCYS
Sizes Available:	1.0 ml/vial
Concentration:	>50 mg/ml (see Certificate of Analysis for exact conc.)
Form:	Frozen liquid
Activity:	>75 CP50 Units/mL active classical pathway >75 AP50 Units/mL active alternative Lot specific titers provided in the Certificate of Analysis
Buffer:	None
Preseervative:	None, 0.22 µm filtered. Not certified as sterile.
Storage:	-70°C or below. Minimize freeze/thaw cycles.
Source:	Normal Cynomolgus Monkey blood.
Restrictions:	Not available for sale outside the USA due to international endangered species laws.
Precautions:	Use normal precautions for handling animal products.
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Origin:	Manufactured in the USA.

General Description

Normal cynomolgus serum (NCYS) is tested for complement activity and certified to possess fully functional classical and alternative pathways of activation. NCYS was prepared from mixed gender cynomolgus monkeys. Each sample of blood was collected without anticoagulants and, after coagulation, the liquid portion was separated by centrifugation. NCYS was filtered through a 0.22 µm filter, aliquoted and frozen at -80° C. All testing for complement activity was performed on the subsequently thawed samples to guarantee that the functional activity reported is what customers will receive when the samples are thawed. Complement activity is stable for several years if NCYS is stored at -70° C or below continuously. A slight degradation of activity may be observed following additional freeze thaw cycles.

Physical Characteristics & Structure

NCYS is a clear, straw-colored liquid containing all proteins of normal monkey serum. Although the NCYS is filtered through 0.22 µm sterile filters and is aliquoted into sterile containers, it is not packed under strictly sterile conditions and is therefore not certified as sterile.

Function

NCYS is tested for classical pathway hemolytic activity using antibody-sensitized sheep erythrocytes (CompTech #B200) and for alternative pathway function using rabbit erythrocytes (CompTech #B300). The Certificate of Analysis provided with each lot gives a description of the assays and specific titers for the sera compared to a normal human serum standard.

Assays

The unit of classical pathway activity is the CH50. One CH50 unit is defined as the input of NCYS complement standard yielding 50% lysis of 1×10^8 EA (CompTech

#B200) when incubated for 60 minutes at 37° C in a total reaction volume of 1.5 mL GVB++. The unit of alternative pathway activity is the AP50. One AP50 unit is defined as the input of NCYS complement standard yielding 50% lysis of 1.5×10^7 rabbit erythrocytes (Er, CompTech #B300) when incubated for 30 minutes at 37° C in a total reaction volume of 100 μ L GVB° containing a final Mg-EGTA concentration of 5 mM.

Applications

NCYS is used to provide a source of monkey complement for hemolytic assays. This NCYS has been pre-tested and certified to exhibit fully functional classical and alternative pathway complement activation.

Precautions/Toxicity/Hazards

The source is cynomolgus monkey serum, therefore precautions appropriate for handling any animal blood-derived product must be used.

Hazard Code: B

MSDS available upon request.

**FOR RESEARCH USE ONLY IN USA.
NOT FOR HUMAN OR DRUG USE.**

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