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Certificate of Analysis

cappel

**CLARIFIED MOUSE MYELOMA ASCITES
IGA (LAMBDA2) MOPC 315 - 5MG
Catalog #: 50339
Lot #: 05578**

Total Protein: 9.1 ml

DESCRIPTION:

Product is the lyophilized powder of clarified mouse myeloma ascites IgA (I2) MOPC 315.

The IgA (I2) MOPC 315 tumor line is a mineral oil (Bayol F)-induced plasmacytoma. The IgA myeloma protein has a hapten-binding specificity for nitrophenyl groups, and has been reported to bind antigens such as DNP- and TNP-substituted proteins. The clarified ascites is produced in BALB/c mice, and is filtered through a 0.22 μ m filter, vialled and lyophilized. This ascites does not contain preservative.

USES:

This product is suitable for use as a positive control in antibody identification screening techniques. It gives sharp precipitin lines in immunoelectrophoresis and immunodiffusion techniques. Purified proteins are recommended as ELISA coating antigens and as controls. (See **Related Product Ordering Information** for these products.)

SPECIFICATIONS:

The total protein is measured using the Biuret procedure, with bovine albumin as a standard. Each ascites is tested for immunoglobulin content by radial immunodiffusion with specific antisera following precipitation by ammonium sulfate (See **Protocol for Immunoglobulin Precipitation**). In addition, the ascites contains the normal threshold of mouse immunoglobulins and ascites proteins.

RECONSTITUTION:

Reconstitute product with 1.0 ml of deionized or distilled water. Gentle swirling may be used to speed rehydration. Avoid vigorous shaking of the reconstituted material.

STORAGE:

Store lyophilized product at 2-8°C. Store reconstituted material no longer than 1 week at 2-8°C. For long-term storage, aliquot and freeze reconstituted product at -20°C or lower.

WARNING AND CAUTION:

This product is intended **FOR RESEARCH USE ONLY**, not for use in diagnostic or therapeutic procedures involving humans or animals.

RELATED PRODUCT ORDERING INFORMATION:

Catalog #DescriptionSize

55434GOAT ANTI-MOUSE IGA (a CHAIN) 2ML
55492FITC GOAT ANTI-MOUSE IGA (a CHAIN)2ML
55549HRP GOAT ANTI-MOUSE IGA (a CHAIN)2ML
50325PURIFIED MOUSE MYELOMA IGA(I2) MOPC 3151MG

For antibodies to mouse IgG subclasses and mouse IgM, please see our catalog.

PROTOCOL FOR IMMUNOGLOBULIN PRECIPITATION

To reconstitute the ascites and precipitate 5 mg of immunoglobulin with ammonium sulfate, use the following procedure:

- Reconstitute the lyophilized mouse ascites with .5 ml of deionized or distilled water; rotate slowly to solubilize the ascites, and transfer to a plastic conical centrifuge tube (e.g. 15 ml) with a disposable pipet. Add another ? ml of water to the vial, rinse and transfer to the conical tube.
- Mix the 1.0 ml of reconstituted ascites carefully by drawing in and out of the pipet. Do not vigorously agitate these high protein solutions or excessive bubbling will result.
- Add 300 mg of anhydrous, reagent-grade ammonium sulfate to the 1.0 ml of reconstituted ascites. Agitate with a vortex mixer.
- Place the tube in an ice bath for two (2) hours.
- Centrifuge the precipitated protein at 1000 x g for 10 minutes at 4°C.
- Decant or aspirate the supernatant.
- Resolubilize the pellet with 1 ml of normal saline (0.85% NaCl); use a disposable pipet to carefully agitate the pellet into solution. Minimize severe agitation or foaming will result.

Approved by: *Robert Beattie*
Quality Control Director

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