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## TECHNICAL INFORMATION

Catalog Number: 50339

### Clarified Mouse Myeloma Ascites IgA (lambda2) MOPC 315

**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 µm filter, vialled and lyophilized.

**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.

#### REFERENCE:

– Potter, M. "Immunoglobulin-producing Tumors and Myeloma Proteins of Mice." **Physiol. Rev.** 52: 631-719, 1972.

#### 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

#### 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.

**Note:** This product may contain a preservative such as sodium azide, thimerosal or proclin. Please see lot specific chemical credential for preservative information.

[If a titer/working dilution is not given above, please click here to see a general dilution chart for working with antibodies. Please note that the general dilution chart should only be used as a guideline. Each lab should determine their own optimal working dilution.](#)

[Will this antibody work with your application? Please click here to see a general chart of antibody applications. Please note that any information given above is primary application data. The general applications charts should only be used as a reference.](#)