

**HUMAN IgG3, LAMBDA
PURIFIED MYELOMA PROTEIN**

Product No. **I4514**

Human myeloma IgG3, lambda is purified from human plasma by fractionation, ion-exchange and affinity chromatography procedures.¹⁻³ The purified immunoglobulin represents a single subclass and light chain type. The product is lyophilized from 1 ml of phosphate buffer (10 mM sodium phosphate, pH 7.2). Each vial contains at least 1 mg of immunoglobulin.

Uses

The purified IgG3, lambda may be used as an immunoglobulin calibrator, reference antigen, blocking agent or coating protein in a variety of immunoassays including ELISA, dot-blot immunobinding, Western immunoblotting, immunodiffusion, immunoelectrophoresis, hemagglutination, and cell-binding assays.⁴⁻⁶

Product Characteristics

Purity of immunoglobulin is greater than 95% as determined by reduced SDS-PAGE. Identity of IgG3, lambda is verified by subclass monoclonal antibodies and type specific polyclonal antibodies in immunoelectrophoresis, Ouchterlony, and dot-blot immunobinding assays.

Reconstitution and Storage Instructions

Prior to reconstitution, store at 2-8°C. After reconstitution, store aliquots at -20°C. Repeated freezing and thawing of reconstituted product is **not** recommended.

The contents of the vial are reconstituted by adding 1 ml PBS to give a protein concentration of at least 1 mg/ml ($E_{280nm}^{0.1\%}=1.4$).⁷

POTENTIAL BIOHAZARD

Handle as if capable of transmitting infectious agents. Refer to the Material Safety Data Sheet. Source material tested and found negative for antibody to HIV and HBsAg.

References

1. McKinney, M. M., et al., *J. Immunol. Methods*, **96**, 271 (1987).
2. Bird, P., et al., *J. Immunol. Methods*, **71**, 97 (1984).
3. Tousch, D., et al., *BioChromatography*, **5**, 30 (1990).
4. Haaijman, J. J., et al., *Immunology Today*, **5**, 56 (1984).
5. Lew, A. M., *J. Immunol. Methods*, **72**, 171 (1984).
6. Steward, M. W., et al., *J. Immunol. Methods*, **78**, 173 (1985).
7. Kronick, M. N., et al., *Clin. Chem.*, **29**, 1582 (1983).

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