

Product Information

Human IgG4, Lambda Purified Myeloma Protein

Product Number **I 4764**

Product Description

Human myeloma IgG4, 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 purified IgG4, 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

Reagent

Each vial contains at least 1 mg of immunoglobulin in 1 ml of 0.02 M Tris buffered saline, pH 8.0, with no preservative added.

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.

Storage/Stability

Store in aliquots at -20 °C. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended.

Product Profile

Purity of immunoglobulin is greater than 95% as determined by reduced SDS-PAGE. Identity of IgG4, lambda is verified by subclass monoclonal antibodies and type specific polyclonal antibodies in immunoelectrophoresis and indirect ELISA.

Protein concentration is determined to be at least 1 mg/ml ($E_{280}^{1\%} = 1.4$).⁷

References

1. McKinney, M. M., et al., *J. Immunol. Methods*, **96**, 271 (1987).
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3. Tousch, D., et al., *BioChromatography*, **5**, 30 (1990).
4. Haaijman, 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).

KAA/LPG 12/05

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