

## Product Information

### HUMAN IgG1, LAMBDA Purified Myeloma Protein

Product Number **I 5029**

#### Product Description

Human myeloma IgG1, lambda is purified from human plasma by fractionation, ion-exchange and affinity chromatography procedures.<sup>1-3</sup> The purified immunoglobulin represents a single subclass and light chain type.

The purified IgG1, 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.<sup>4-6</sup>

#### Reagent

Human myeloma IgG1, lambda is supplied as a frozen liquid in 20 mM tris buffered saline, pH 8.0. No preservatives are added. Each vial contains at least 1 mg of immunoglobulin.

Protein concentration is measured using  $E^{0.1\%} = 1.4$  at 280 nm.<sup>7</sup>

Purity of immunoglobulin is greater than 95% as determined by reduced SDS-PAGE. Identity of IgG1, lambda is verified by subclass monoclonal antibodies and type specific polyclonal antibodies in immunoelectrophoresis and indirect ELISA assays.

#### Precautions and Disclaimer

**BIOHAZARD:** Handle as if capable of transmitting infectious agents. Refer to MSDS.

Material tested and found negative for antibody to HIV and HbsAG.

#### Storage/Stability

Store in aliquots at  $-20^{\circ}\text{C}$ . Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

#### References

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

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