



Product Information

ANTI-HUMAN LAMBDA LIGHT CHAIN (BOUND AND FREE)

IgG Fraction of Antiserum
Developed in Rabbit

Product Number **L 7646**

Product Description

Anti-Human Lambda Light Chain is developed in rabbit using purified human lambda light chain from Bence Jones urine as the immunogen. Whole antiserum is fractionated and then further purified by ion exchange chromatography to provide the IgG fraction of antiserum. This fraction is essentially free of other rabbit serum proteins.

Specificity for the lambda chain of human immunoglobulins is determined by immunoelectrophoresis (IEP). The antibody preparation is specific for lambda light chains when tested against bound and free light chains. The product shows no reaction with bound or free kappa light chains.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). Electrophoresis of the antibody preparation followed by diffusion versus anti-rabbit IgG and anti-rabbit whole serum results in single arcs of precipitation in the gamma region.

Reagents

Rabbit Anti-Human Lambda Light Chain is provided as liquid in 0.01 M phosphate buffered saline, pH 7.2, containing 15 mM sodium azide as a preservative.

Precautions and Disclaimer

Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the

attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for a maximum of one month. For extended storage, the solution may be frozen in working aliquots. 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.

Product Profile

Each milliliter of antiserum contains 3.0-4.0 mg of specific antibody. Normal human serum is used to determine the antibody concentration by a quantitative precipitin assay. When Bence Jones urine is used in the precipitin assay the antiserum was determined to have 4.0-6.0 mg of antibody per milliliter of antiserum.

Using a double diffusion assay, in 1% agarose, 5 µl of serially diluted Rabbit Anti-Human Lambda is reacted against 5 µl of a 1 mg/ml solution of purified Bence Jones lambda or normal human serum (well diameter: 3.5 mm; well separation: 7.5 mm, center to center). Titer is equivalent to the highest dilution of antiserum resulting in a visible precipitate within 24 hours.

JWM/KMR 06/02

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