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## Product Data Sheet

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Product Name: Protein-L, His  
 Cat. No.: GP24245  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Amino Acid Sequence  
 MHHHHHHKKEE TPETPETDSE EEVTIKANLI FANGSTQTAE FKGTFEKATS  
 EAYAYADTLK KDNGEYTVDV ADKGYTLNIK FAGKEKTPEE PKEEVTIKAN  
 LIYADGKTQT AEFKGTFFEEA TAEAYRYADA LKKDNGEYTV DVADKGYTLN  
 IKFAGKEKTP EEPKEEVTIK ANLIYADGKT QTAEFKGTFE EATAEAYRYA  
 DLLAKENGGY TVDVADKGYT LNIKFAGKEK TPEEPKEEVT IKANLIYADG  
 KTQTAEFKGT FAEATAEAYR YADLLAKENG KYTADLEDGG YTINIRFAGK  
 KVDEKPEEKE QVTIKENIYF EDGTVQTATF KGTFAEATAE AYRYADLLSK  
 EHGGYTADLE DGGYTINIRF AG.

Solubility  
 It is recommended to reconstitute the lyophilized Protein-L in sterile 18M-cm H<sub>2</sub>O not less than 0.1mg/ml, which can then be further diluted to other aqueous solutions.

Formulation Protein-L was lyophilized without any additives.

### Introduction

The Recombinant Protein L is comprised of 5 kappa-binding domains. Protein L has the exceptional ability to bind through kappa light chain interactions without hindering with the antibody's antigen-binding site. This gives Protein L the capacity to bind a broader range of Ig classes and subclasses than other antibody-binding proteins. The recombinant Protein L is perfect for purification of polyclonal or monoclonal IgG antibodies. Protein L binds to IgG from humans, mice, rats and pigs.

### Stability

Lyophilized Protein-L although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Protein-L should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to

**Caution: Product has not been fully validated for medical applications. For research use only.**

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add a carrier protein (0.1% HSA or BSA).

### Background

Recombinant Protein-L produced in E.Coli is a single non-glycosylated polypeptide chain fused with a 6×His tag at N-terminus. Protein-L is comprised of 5 IgG-binding regions of protein L (B1-B2-B3-B4-B5) containing 372 amino acids in total and having a molecular mass of 41.5kDa, however, it migrates with an apparent molecular mass of 46kDa on SDS-PAGE. Cell wall binding region, cell membrane binding region and albumin binding region have been eliminated from the recombinant Protein-L to guarantee the maximum specific IgG binding.

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