Lytic Solutions

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Certificate of Analysis

Recombinant Protein A

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Product Number: LS1311-rPA5 Lot Number: 149-006B  Date of manufacture: Dec 1, 2013 |  | |  | | |  | |  | Product No:  Lot No:  Date of Manufacture: |

Quality Control:

rProtein A5 has been functionally tested and has met the following specifications:

Purity > 95% by Coomassie PAGE

rProtein A5 Activity; >99% binding to immobilized rabbit IgG, by coomassie PAGE.

Results: Passes specifications

**For Research Use Only**. Not for Human or diagnostic Use. If you have any further questions about this Certificate of Analysis, please contact Lytic Solutions at (608) 345-8848.



Fritz Schomburg, PhD

Founder and CE

**Datasheet rProtein A**

Storage and handling: -20°C

Concentration: 44mg/ml (Absorbance 280nm of 0.22 per mg/ml)

Storage buffer: 15mM Sodium Phosphate, pH 7.5

150mM Sodium Chloride (no preservatives)

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| --- | --- | --- |
| **Source** | Recombinant Protein A is produced in a strain of *E. coli* that contains the gene encoding Protein A from *Staphylococcus aureus*. | 2  1  M  kDa  14  17  28  38  49  62  98  188  2  1  M  kDa  14  17  28  38  49  62  98  188  2  1  M  kDa  14  17  28  38  49  62  98  188  **Figure 1. Purity and activity analysis of recombinant Protein A (product no. LS1311) by SDS PAGE.**  Purified Protein A was passed through a rabbit IgG column. Flow through (Lane 1) and 3 g of equivalent purified material (Lane 2) were analyzed on a Life Technologies Novex 4-12% Bis-Tris gel, MES buffer.  M MW marker (Life Technologies,  SeeBlue Plus2 Prestained standard) |
| **Sequence** | Recombinant Protein A contains amino acids 44-338 of accession no. ENN10205.1 containing five immunoglobulin-binding domains. |
| **Mol. wt.** | 34.3 kDa (LS1311) by mass spec., apparent running mass is approximately 36kDa. |
| **Purity** | >95% by SDS PAGE. |
| **Specific Activity** | >99% binding to rabbit IgG |
|  |  |
|  | Recombinant Protein A5 binds to the Fc region of human IgG1,IgG2, and IgG4, as well as IgG from mouse, rabbit, guinea pig. Recombinant Protein A binds minimally to human IgA, IgD, IgE, and IgM. Recombinant protein A does not bind albumin. |



Fritz Schomburg, PhD

CEO/Founder Lytic Solutions, LLC