

**Lytic Solutions, LLC**

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# Certificate of Analysis

# Recombinant Protein G

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Product Number: LS1563-rPGLot Number:019-008-1BDate of manufacture: Dec 5, 2013 |  | |  | | |  | |  | Product No:  Lot No:  Date of Manufacture: |

**Quality Control:**

## rProtein G has been functionally tested and has met the following specifications:

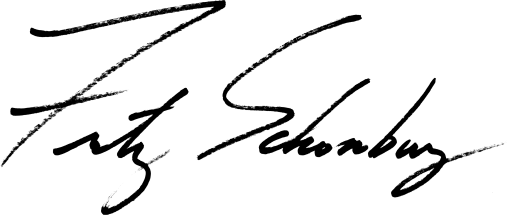
**Purity:** > 95% by Coomassie PAGE.

**Molecular Weight:** 23.2 kDa (LS1563) by mass spectrometry, apparent running mass is approximately 33kDa.

**rProtein G Activity:** Greater than 99% binding to immobilized rabbit IgG as measured 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 CEO



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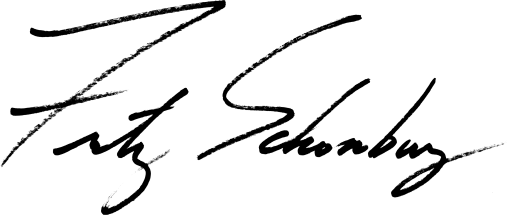
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# Datasheet: His-Streptavivin – LS1909B

|  |  |  |
| --- | --- | --- |
| Description | E. coli derived recombinant His-Streptavidin is made from the streptavidin gene from Streptomyces avidinii. LS1909B is a tetramer and each monomer contains a His-Tag.  • Greater than 98% streptavidin is present in tetramer formation, assayed by non-heat denatured SDS PAGE.  • Biotin-binding activity: >16 U/mg (Green’s modified assay)  • His-tag binding efficiency: complete protein retention on NTA resin | His-streptavidin spec sheet gel.jpg  **Figure 1. Purity and activity analysis of recombinant His-tagged streptavidin by SDS PAGE.**  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  Purified His-Streptavidin was analyzed on a Life Technologies Novex 4-12% Bis-Tris gel, MES buffer.  M- MW marker (Life Technologies, Novex Sharp Protein Standard)   1. 3 g of purified streptavidin |
| Source | Streptomyces avidinii, PS51326  A280=3.0 at 1mg/ml. |
| Mol. Wt. | Monomer: 14.6 kDa. |
| Purity | >95% by SDS PAGE. |
| Solution | 1. mg/ml in 30mM HEPES pH 8.0   and 50% glycerol (no preservatives)] |
| Storage | Short term at 4°C, long term at -20°C. |
| Recognition | • Biotin-binding activity: >16 U/mg (Green’s modified assay)  • His-tag binding efficiency: complete protein retention on NTA resin |



Fritz Schomburg, PhD

CEO/Founder Lytic Solutions, LLC