

Certificate of Analysis

Product Information

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|----------------------------|---|--------------------------------|
| Product Name: | RPL-αMan | Product Code: L-006-2MG |
| • Lot Number: | Lot 1 | |
| • Pack Size: | 2 mg Supplied in PBS (pH7.2) at 2 mg.mL ⁻¹ | |
| • Storage | Long Term Storage at -80°C Short Term Storage at -20°C | |
| • Description: | Hex-His Tagged RPL-αMan | |
| – Produced: | Recombinantly Expressed in <i>Escherichia coli</i> . | |
| – Purified: | Purified by Immobilized Metal Affinity Chromatography (IMAC). | |
| – Source: | <i>Pseudomonas aeruginosa</i> . | |
| – Molecular Weight: | Monomer MW: 13,130 Da Exists as dimer under physiological conditions (PBS, pH7.2). | |

Quality Control Analysis

- **Specificity:** Fucose/Mannose: Lewis a (Le^a), Lewis x (Le^x) & terminal α -mannose as assessed by Enzyme Linked Lectin Assay (ELLA).
- **Purity Analysis:** Highly purified (>98%). Homogeneous as determined by:
 - SDS PAGE analysis using Coomassie Blue detection.
 - Gel Permeation Chromatography (GPC).
- **Percentage Activity:** >98% as assessed by affinity chromatography.

Usage Guidelines

- Typically utilized in ELLA prepared by dilution in Tris Buffered Saline (pH7.6).
- RPL activity requires metal ions. Buffers must therefore be supplemented with 1mM CaCl₂, MgCl₂ and MnCl₂.
- RPL typically diluted to working concentration of $\leq 5 \mu\text{g.mL}^{-1}$ with TBS and incubated for a minimum of 30 minutes prior to use to allow metal complexation.

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