

# Certificate of Analysis

## Product Information

<b>Product Name:</b>	<b>RPL-<math>\alpha</math>Gal</b>	<b>Product Code: L-001</b>
• <b>Lot Number:</b>	Lot GA-20022017	
• <b>Pack Size:</b>	2 mg Supplied in PBS (pH7.2) at 2 mg.mL <sup>-1</sup>	
• <b>Storage</b>	Long Term Storage at -80°C Short Term Storage at -20°C	
• <b>Description:</b>	<b>Hexa-His Tagged RPL-<math>\alpha</math>Gal</b>	
– <b>Produced:</b>	Recombinantly Expressed in <i>Escherichia coli</i> .	
– <b>Purified:</b>	Purified by Immobilized Metal Affinity Chromatography (IMAC).	
– <b>Source:</b>	Derived from PA-IL ( <i>Pseudomonas aeruginosa</i> ).	
– <b>Molecular Weight:</b>	Monomer MW: 14,161 Da. Exists as a dimer under physiological conditions (PBS pH7.2).	
– <b>Theoretical Ext. Coefficient [E<sup>0.1%</sup>]:</b>	1.974	

## Quality Control Analysis

- **Specificity:** Terminal  $\alpha$  linked Galactose & N Acetylgalactosamine (GalNAc) as assessed by Enzyme Linked Lectin Assay (ELLA).
- **Purity Analysis:** Highly purified (>95%). Homogeneous as determined by:
  - SDS PAGE analysis using Coomassie Blue detection.
  - Gel Permeation Chromatography.
- **Percentage Activity:** >95% as assessed by affinity chromatography.

## Usage Guidelines

- RPL activity requires metal ions. All buffers must therefore be supplemented with 1mM CaCl<sub>2</sub>, MgCl<sub>2</sub> and MnCl<sub>2</sub>.
- Recommended dilution to desired working concentration ( $\leq 20 \mu\text{g.mL}^{-1}$ ) in Tris Buffered Saline (TBS, pH7.6).
- Following dilution with TBS, supplemented with metal ions, the RPL should be incubated for a minimum of 30 minutes prior to use to allow metal complexation.

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## RPL- $\alpha$ Gal

Pack Size: 1 mL  
(2mg.mL<sup>-1</sup>)

Product No: L-001

(Patent Pending)

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