



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

NATIVE ESCHERICHIA COLI BETA GALACTOSIDASE

Catalog No.
DS-01-0029

Target Species
Bacterial

Formulation

Buffer Solution: 10mM Potassium Phosphate

Approx. Protein Concentrations: Protein content is approximately 20-25% of total weight

Molecular Weight: 540 KDa

Preservative Stabilizers: 74% Sucrose

Activity: >600 U/mg protein

One unit hydrolyses 1 μ mole of p-nitrophenol-b-D-galactoside to p-nitrophenol per minute at 37°C.

Description

Escherichia coli Beta-Galactosidase is an inducible tetrameric enzyme coded by the lac Z gene of the lac operon that is often used as a reporter to assess the efficiency of transfection. It is a metalloenzyme that splits lactose into glucose and galactose. It hydrolyzes terminal, non-reducing beta-D-galactose residues in beta-D-galactosides.

Applications

Table Summary of protein applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Functional Assays	•			
Western Blotting			•	
ELISA			•	

Note: Optimal dilutions should be determined by each laboratory for each application.

Storage

Prior to reconstitution store at +4°C.

After reconstitution store at -20°C.

Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 12 months from date of reconstitution.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**