Datasheet: 4600-1704

Description:	NATIVE ESCHERICHIA COLI BETA GALACTOSIDASE
Name:	BETA GALACTOSIDASE
Format:	Lyophilized
Product Type:	Purified Protein
Quantity:	5 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA			▪	
Western Blotting			▪	
Functional Assays	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Bacterial
Product Form	Purified protein from *Escherichia coli* - lyophilized
Reconstitution	Reconstitute with 1.0 ml sterile distilled water or aqueous buffer of choice. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	Contains Sucrose
Approx. Protein Concentrations	Protein content is approximately 20-25% of total weight
External Database Links	**UniProt:** P00722 Related reagents

Product Information	*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.
Protein Molecular Weight	540 kDa
Activity	>600 U/mg protein One unit hydrolyses 1 µmole of p-nitrophenol-b-D-galactoside to p-nitrophenol per minute at 37ºC. For batch-specific activity, please inquire.
Storage	Prior to reconstitution store at +4ºC. After reconstitution store at -20ºC. 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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10152 available at: https://www.bio-rad-antibodies.com/SDS/4600-1704 10152
Regulatory	For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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