

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	Bacteroides Heparinase III
Catalog #:	P0737S/L
Concentration:	700 units/ml
Unit Definition:	One unit is defined as the amount of enzyme that will liberate 1.0 μ mol unsaturated oligosaccharides from heparan sulfate per minute at 30°C and pH 7.0 in a total reaction volume of 100 μ l.
Lot #:	0031610
Assay Date:	10/2016
Expiration Date:	10/2017
Storage Temp:	-80°C
Storage Conditions:	100 mM NaCl, 20 mM Tris-HCl, 1 mM EDTA, 5 mM CaCl ₂ , (pH 7.5 @ 25°C)
Specification Version:	PS-P0737S/L v1.0
Effective Date:	19 Feb 2016

Assay Name/Specification (minimum release criteria)	Lot #0031610
Glycosidase Activity (β1-3 Galactosidase) - A 10 µl reaction in Heparinase Reaction Buffer containing 1 nM of fluorescently-labeled β -Galactosidase substrate (Gal β 1-3GlcNAc β 1-4Gal β 1-4Glc-AMC) and 1 unit of <i>Bacteroides</i> Heparinase III incubated for 20 hours at 30°C results in no detectable activity as determined by thin layer chromatography.	Pass
Glycosidase Activity (β1-4 Galactosidase) - A 10 µl reaction in Heparinase Reaction Buffer containing 1 nM of fluorescently-labeled β -Galactosidase substrate (Gal β 1-4GlcNAc β 1-3Gal β 1-4Glc -AMC) and 1 unit of <i>Bacteroides</i> Heparinase III incubated for 20 hours at 30°C results in no detectable activity as determined by thin layer chromatography.	Pass
Glycosidase Activity (β-N-Acetylgalactosaminidase) - A 10 µl reaction in Heparinase Reaction Buffer containing 1 nM of fluorescently-labeled β -N-Acetylgalactosaminidase substrate (GalNAc β 1-4Gal β 1-4Glc-AMC) and 1 unit of <i>Bacteroides</i> Heparinase III incubated for 20 hours at 30°C results in no detectable activity as determined by thin layer chromatography.	Pass
Glycosidase Activity (β-N-Acetylglucosaminidase) - A 10 μ l reaction in Heparinase Reaction Buffer containing 1 nM of fluorescently-labeled β -N-Acetylglucosaminidase substrate (GlcNAc β 1-4GlcNAc β 1-4GlcNAc-AMC) and 1 unit of <i>Bacteroides</i> Heparinase III incubated for 20 hours at 30°C results in no detectable activity as determined by thin layer chromatography.	Pass



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Assay Name/Specification (minimum release criteria)	Lot #0031610
Protease Activity (SDS-PAGE) - A 20 μ l reaction in 1X Heparinase Reaction Buffer containing 24 μ g of a standard mixture of proteins and a minimum of 5 units of <i>Bacteroides</i> Heparinase III incubated for 20 hours at 37° C, results in no detectable degradation of the protein mixture as determined by SDS-PAGE with Coomassie Blue detection.	Pass
Protein Purity Assay (SDS-PAGE) - <i>Bacteroides</i> Heparinase III is \ge 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Sulfatase Activity (2y) - A 10 μ l reaction in Heparinase Reaction Buffer containing 1 nM of fluorescently- labeled 2-O-Sulfatase substrate (Δ UA2S-(1-4)-GlcNS6S-AMC) and 1 unit of <i>Bacteroides</i> Heparinase III incubated for 20 hours at 30°C results in no detectable activity as determined by thin layer chromatography.	Pass
Sulfatase and Uronidase Activity (N,6y) - A 10 μ l reaction in Heparinase Reaction Buffer containing 1 nM of fluorescently-labeled N,6-O-Sulfatase substrate (Δ UA-(1-4)-GlcNS6S-AMC) and 1 unit of <i>Bacteroides</i> Heparinase III incubated for 20 hours at 30°C results in no detectable activity as determined by thin layer chromatography.	Pass

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Authorized by Derek Robinson 19 Feb 2016



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Inspected by Alicia Bielik 25 Oct 2016