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## New England Biolabs Certificate of Analysis

Product Name: Bacteroides Heparinase II

Catalog Number: P0736L
Concentration: 4,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme that will liberate 1.0

µmol unsaturated oligosaccharides from porcine mucosal heparin per

minute at 30°C and pH 7.0 in a total reaction volume of 100 μl.

Packaging Lot Number: 10099213
Expiration Date: 02/2022
Storage Temperature: -80°C

Storage Conditions: 100 mM NaCl, 20 mM Tris-HCl, 1 mM EDTA, 5 mM CaCl2, (pH 7.5 @ 25°C)

Specification Version: PS-P0736S/L v1.0

Bacteroides Heparinase II Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
P0736LVIAL	Bacteroides Heparinase II	10099214	Pass	
B0735SVIAL	Bacteroides Heparinase Reaction Buffer (10X)	10081039	Pass	

Assay Name/Specification	Lot # 10099213
Protein Purity Assay (SDS-PAGE)	Pass
Bacteroides Heparinase II is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	
Protease Activity (SDS-PAGE)	Pass
A 20 µl reaction in 1X Heparinase Reaction Buffer containing 24 µg of a standard	
mixture of proteins and a minimum of 20 units of Bacteroides Heparinase II 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.	
Glycosidase Activity (β1-4 Galactosidase)	Pass
A 10 µl reaction in Heparinase Reaction Buffer containing 1 nM of	
fluorescently-labeled β-Galactosidase substrate (Galβ1-4GlcNAcβ1-3Galβ1-4Glc -AMC) and 8 units of Bacteroides Heparinase II incubated for 20 hours at 30°C results in	
no detectable activity as determined by thin layer chromatography.	
Glycosidase Activity (β1-3 Galactosidase)	Pass
A 10 µl reaction in Heparinase Reaction Buffer containing 1 nM of	
fluorescently-labeled β-Galactosidase substrate (Galβ1-3GlcNAcβ1-4Galβ1-4Glc-AMC)	



P0736L / Lot: 10099213

Page 1 of 3

Assay Name/Specification	Lot # 10099213
and 8 units of Bacteroides Heparinase II incubated for 20 hours at 30°C results in no detectable activity as determined by thin layer chromatography.	
The detectable activity as determined by thin layer chromatography.	
Glycosidase Activity (β-N-Acetylgalactosaminidase)	Pass
A 10 μl reaction in Heparinase Reaction Buffer containing 1 nM of fluorescently-labeled β-N-Acetylgalactosaminidase substrate	
(GalNAcβ1-4Galβ1-4Glc-AMC) and 8 units of Bacteroides Heparinase II incubated for 20	
hours at 30°C results in no detectable activity as determined by thin layer chromatography.	
Glycosidase Activity (β-N-Acetylglucosaminidase)	Pass
A 10 µl reaction in Heparinase Reaction Buffer containing 1 nM of	
fluorescently-labeled β-N-Acetylglucosaminidase substrate (GlcNAcβ1-4GlcNAcβ1-4GlcNAc-AMC) and 8 units of Bacteroides Heparinase II incubated	
for 20 hours at 30°C results in no detectable activity as determined by thin layer chromatography.	
Sulfatase Activity (2-0)	Pass
A 10 μl reaction in Heparinase Reaction Buffer containing 1 nM of fluorescently-labeled 2-O-Sulfatase substrate (ΔUA2S-(1-4)-GlcNS6S-AMC) and 8 units	
of Bacteroides Heparinase II incubated for 20 hours at 37°C results in no detectable	
activity as determined by thin layer chromatography.	
Sulfatase and Uronidase Activity (N,6-O)	Pass
A 10 μl reaction in Heparinase Reaction Buffer containing 1 nM of fluorescently-labeled N,6-O-Sulfatase substrate (ΔUA-(1-4)-GlcNS6S-AMC) and 8 units	
of Bacteroides Heparinase II incubated for 20 hours at 30°C results in no detectable	
activity as determined by thin layer chromatography.	

This product has been tested and shown to be in compliance with all specifications.

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P0736L / Lot: 10099213 Page 2 of 3 Alicia Bielik
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13 Apr 2021

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Packaging Quality Co

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