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New England Biolabs Certificate of Analysis

Product Name: beta-Agarase I

Catalog Number: M0392S Concentration: 1,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 200

μl of molten low melting point or NuSieve agarose to nonprecipitable

neoagaro-oligosaccharides in 1 hour at 42°C

Lot Number: 10033915
Expiration Date: 01/2021
Storage Temperature: -20°C

Storage Conditions: 50 mM Bis-Tris-HCl, 1 mM EDTA, 50 % Glycerol, (pH 6.5 @ 25°C)

Specification Version: PS-M0392S/L v1.0

beta-Agarase I Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0392SVIAL	β-Agarase I	10028258	Pass	
B0392SVIAL	ß-Agarase I Reaction Buffer	10028255	Pass	

Assay Name/Specification	Lot # 10033915
Endonuclease Activity (Nicking) A 50 μl reaction in CutSmart® Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 1 unit of β-Agarase I incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart® Buffer containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 5 units of β-Agarase I incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in CutSmart® Buffer containing 1 μg of Lambda DNA and a minimum of 10 units of β-Agarase I incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) β-Agarase I is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass



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

Ana Egana Production Scientist

09 Jan 2019

Michael Tonello

Packaging Quality Control Inspector

09 Jan 2019

