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New England Biolabs Certificate of Analysis

Product Name: beta-Agarase I

Catalog Number: M0392L 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

Packaging Lot Number: 10137956
Expiration Date: 01/2024
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	
M0392LVIAL	β-Agarase I	10137955	Pass	
B0392SVIAL	ß-Agarase I Reaction Buffer	10137959	Pass	

Assay Name/Specification	Lot # 10137956
Protein Purity Assay (SDS-PAGE) β-Agarase I is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion) A 10 μ I reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 μ I of β -Agarase I is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	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
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



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

conversion to the nicked form as determined by agarose gel electrophoresis.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Vanessa Mathieu-Sheltry Production Scientist

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17 Mar 2022

Michael Tonello

Packaging Quality Control Inspector

17 Mar 2022

