

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: 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: 10030182
Expiration Date: 04/2020
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	0281804	Pass	
B0392SVIAL	ß-Agarase I Reaction Buffer	0091803	Pass	

Assay Name/Specification	Lot # 10030182
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
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



M0392S / Lot: 10030182

Page 1 of 2



Assay Name/Specification	Lot # 10030182
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

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

Ana Egana

Production Scientist

14 Dec 2018

Josh Hersey

Packaging Quality Control Inspector

14 Dec 2018

