

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 μ l of molten low melting point or NuSieve agarose to nonprecipitable neoagaro-oligosaccharides in 1 hour at 42°C
Packaging Lot Number: 10236427
Expiration Date: 02/2026
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	10225759	Pass
B0392SVIAL	β -Agarase I Reaction Buffer	10225760	Pass

Assay Name/Specification	Lot # 10236427
<p>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.</p>	Pass
<p>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.</p>	Pass
<p>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.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE) β-Agarase I is \geq 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	Pass

Assay Name/Specification	Lot # 10236427
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl 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

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

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Chris Provost
Production Scientist
11 Mar 2024



Michael Tonello
Packaging Quality Control Inspector
18 Mar 2024