

New England Biolabs Certificate of Analysis

Product Name: *Endoglycoceramidase I (EGCase I)*
Catalog Number: P0773S
Concentration: 6 U/ml
Unit Definition: One unit of *R. triatomea* EGCase I is defined as the amount of enzyme required to hydrolyze 1 μ mol of ganglioside GM1a per minute at 37°C.
Lot Number: 10052274
Expiration Date: 12/2020
Storage Temperature: -20°C
Storage Conditions: 50 mM NaCl, 20 mM Tris-HCl, 1 mM EDTA, (pH 7.5 @ 25°C)
Specification Version: PS-P0773S v1.0

Endoglycoceramidase I (EGCase I) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P0773SVIAL	Endoglycoceramidase I (EGCase I)	10031021	Pass
B0773SVIAL	EGCase I Buffer	10031041	Pass


Assay Name/Specification	Lot # 10052274
<p>Glycosidase Activity (β1-4 Galactosidase) A 10 μl reaction in EGCase I Buffer containing 1 nM of fluorescently-labeled β-Galactosidase substrate (Galβ1-4GlcNAcβ1-3Galβ1-4Glc -AMC) and 6 mU of EGCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (β-N-Acetylgalactosaminidase) A 10 μl reaction in EGCase I Buffer containing 1 nM of fluorescently-labeled β-N-Acetylgalactosaminidase substrate (GalNAcβ1-4Galβ1-4Glc-AMC) and 6 mU of EGCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (β-N-Acetylglucosaminidase) A 10 μl reaction in EGCase I Buffer containing 1 nM of fluorescently-labeled β-N-Acetylglucosaminidase substrate (GlcNAcβ1-4GlcNAcβ1-4GlcNAc-AMC) and 6 mU of EGCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Protease Activity (SDS-PAGE) A 20 μl reaction in 1X EGCase I Buffer containing 24 μg of a standard mixture of</p>	Pass

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<p>proteins and a minimum of 30 mU of EGCCase I 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.</p>	
<p>Protein Purity Assay (SDS-PAGE) EGCase I is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	Pass
<p>Glycosidase Activity (α1-2 Fucosidase) A 10 µl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled α-Fucosidase substrate (Fuca1-2Galβ1-4Glc-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (α1-3 Fucosidase) A 10 µl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled α-Fucosidase substrate (Fuca1-3Galβ1-4GlcNAcβ1-3Galβ1-4Glc-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (α1-3 Galactosidase) A 10 µl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled α-Galactosidase substrate (Galα1-3Galβ1-4GlcNAc-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (α1-3 Mannosidase) A 10 µl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled α-Mannosidase substrate (Mana1-3Manβ1-4GlcNAc-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (α1-6 Galactosidase) A 10 µl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled α-Galactosidase substrate (Galα1-6Galα1-6Glcα1-2Fru-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (α1-6 Mannosidase) A 10 µl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled α-Mannosidase substrate (Mana1-6Manα1-6(Mana1-3)Man-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass

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<p>Glycosidase Activity (α-N-Acetylgalactosaminidase) A 10 μl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled α-N-Acetylgalactosaminidase substrate (GalNAcα1-3(Fuca1-2)Galβ1-4Glc-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (β-Mannosidase) A 10 μl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled β-Mannosidase substrate (Manβ1-4Manβ1-4Man-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (β-Xylosidase) A 10 μl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled β-Xylosidase substrate (Xylβ1-4Xylβ1-4Xylβ1-4Xyl-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (β1-3 Galactosidase) A 10 μl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled β-Galactosidase substrate (Galβ1-3GlcNAcβ1-4Galβ1-4Glc-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (Endo F1, F2, H) A 10 μl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled Endo F1, F2, H substrate (Dansylated invertase high mannose) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (Endo F2, F3) A 10 μl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled Endo F2, F3 substrate (Dansylated fibrinogen biantennary) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (PNGase F) A 10 μl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled PNGase F substrate (Fluoresceinated fetuin triantennary) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass

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<p>Glycosidase Activity (α-Glucosidase) A 10 μl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled α-Glucosidase substrate (Glcα1-6Glcα1-4Glc-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass
<p>Glycosidase Activity (α-Neuraminidase) A 10 μl reaction in EGCCase I Buffer containing 1 nM of fluorescently-labeled α-Neuraminidase substrate (Neu5Acα2-3Galβ1-3GlcNAcβ1-3Galβ1-4Glc-AMC) and 6 mU of EGCCase I incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p>	Pass

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



Jenna Ware
Production Scientist
17 Dec 2018



Michael Tonello
Packaging Quality Control Inspector
06 Sep 2019