

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:	T4 Phage beta-glucosyltransferase
Catalog Number:	M0357L
Concentration:	10,000 U/mI
Unit Definition:	One unit is defined as the amount of enzyme required to protect 0.5 μg T4gt-DNA against cleavage by MfeI restriction endonuclease.
Packaging Lot Number:	10245626
Expiration Date:	04/2026
Storage Temperature:	-20°C
Storage Conditions:	200 mM NaCl, 20 mM KPO4, 0.25 mM DTT, 0.1 mM EDTA, 50% Glycerol, (pH 7.0 @ 25°C)
Specification Version:	PS-M0357S/L v1.0

T4 Phage beta-glucosyltransferase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
S2200SVIAL	Uridine Diphosphate Glucose, 2 mM	10245627	Pass	
M0357LVIAL	T4 Phage β-glucosyltransferase (T4-BGT)	10227072	Pass	
B7004SVIAL	NEBuffer™ 4	10225682	Pass	

Assay Name/Specification	Lot # 10245626
<b>Endonuclease Activity (Nicking)</b> A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 100 units of T4 Phage $\beta$ -glucosyltransferase (T4-BGT) incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 100 units of T4 Phage $\beta$ -glucosyltransferase (T4-BGT) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 $\mu$ I reaction in CutSmart® Buffer containing 1 $\mu$ g of Lambda DNA and a minimum of 100 units of T4 Phage $\beta$ -glucosyltransferase (T4-BGT) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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





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Mala-Samaranayake Production Scientist 29 May 2024

Minh Mr.

Michael Tonello Packaging Quality Control Inspector 12 Jun 2024

