

New England Biolabs Certificate of Analysis

Product Name: T4 Phage beta-glucosyltransferase
Catalog Number: M0357S
Concentration: 10,000 U/ml
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: 10208788
Expiration Date: 01/2025
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

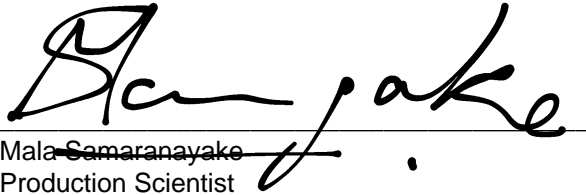
T4 Phage beta-glucosyltransferase Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S2200SVIAL	Uridine Diphosphate Glucose, 2 mM	10178309	Pass
M0357SVIAL	T4 Phage β-glucosyltransferase (T4-BGT)	10171877	Pass
B7004SVIAL	NEBuffer™ 4	10184703	Pass

Assay Name/Specification	Lot # 10208788
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 100 units of T4 Phage β-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
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 100 units of T4 Phage β-glucosyltransferase (T4-BGT) 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 100 units of T4 Phage β-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
18 Jan 2023



Josh Hersey
Packaging Quality Control Inspector
15 Sep 2023