

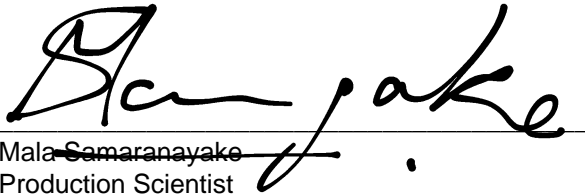
New England Biolabs Certificate of Analysis

Product Name: T4 Phage beta-glucosyltransferase
Catalog Number: M0357L
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: 10062034
Expiration Date: 12/2021
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	10060211	Pass
M0357LVIAL	T4 Phage β-glucosyltransferase (T4-BGT)	10061406	Pass
B7004SVIAL	NEBuffer™ 4	10043904	Pass

Assay Name/Specification	Lot # 10062034
<p>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.</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 100 units of T4 Phage β-glucosyltransferase (T4-BGT) 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 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.</p>	Pass

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



Mala Samaranayake
Production Scientist
05 Dec 2019



Jay Minichiello
Packaging Quality Control Inspector
09 Dec 2019