

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 |
|---|----------------|
| 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 μ I reaction in CutSmart® Buffer containing 1 μ g 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 29 May 2024

Minh Mr.

Michael Tonello Packaging Quality Control Inspector 12 Jun 2024

