

New England Biolabs Certificate of Analysis

Product Name: T4 Phage β -glucosyltransferase (T4-BGT)
Catalog #: M0357S/L
Concentration: 10,000 units/ml
Unit Definition: One unit is defined as the amount of enzyme required to protect 0.5 μ g T4gt-DNA against cleavage by MfeI restriction endonuclease.
Lot #: 0051801
Assay Date: 01/2018
Expiration Date: 01/2020
Storage Temp: -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
Effective Date: 13 Jun 2018

Assay Name/Specification (minimum release criteria)	Lot #0051801
Endonuclease Activity (Nicking) - A 50 μ l reaction in CutSmart [®] Buffer containing 1 μ g 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 μ l reaction in CutSmart [®] Buffer containing 1 μ g of a mixture of single and double-stranded [³ H] <i>E. coli</i> 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 l 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



Authorized by
Derek Robinson
13 Jun 2018



Inspected by
Mala Samaranayake
02 Jan 2018

