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New England Biolabs Certificate of Analysis

Product Name: hSMUG1
Catalog Number: M0336S
Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to excise 1

pmol of deoxyuracil from a 34-mer oligonucleotide duplex containing

a single dU site in a total reaction volume of 10 μl in 1 hour at

37°C.

Lot Number: 10043399
Expiration Date: 04/2021
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 250 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol,

0.15 % Triton®X-100, 200 μg/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-M0336S/L v1.0

hSMUG1 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0336SVIAL	hSMUG1	10043400	Pass	
B9001SVIAL	Purified BSA	10014762	Pass	
B7001SVIAL	NEBuffer™ 1	0101804	Pass	

Assay Name/Specification	Lot # 10043399
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 1 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 50 units of hSMUG1 incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 1 containing 1 μg of Lambda-HindIII DNA and a minimum of 50 units of hSMUG1 incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) hSMUG1 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass

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



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Tony Spear-Alfonso Production Scientist 12 Sep 2018

Michael Tonello

Packaging Quality Control Inspector

07 Jun 2019