

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	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.
Packaging Lot Number:	10088656
Expiration Date:	11/2022
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	10088655	Pass	
B9001SVIAL	Purified BSA	10059427	Pass	
B7001SVIAL	NEBuffer™ 1	10064408	Pass	

Assay Name/Specification	Lot # 10088656
Endonuclease Activity (Nicking) A 50 μ I reaction in NEBuffer 1 containing 1 μ g 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit





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Lauren Higgins

Lauren Higgins Production Scientist 10 Nov 2020

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Michael Tonello Packaging Quality Control Inspector 10 Nov 2020

