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  $\mu$ l in 1 hour at

37°C.

Packaging Lot Number: 10180910
Expiration Date: 01/2025
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0336SVIAL	hSMUG1	10176091	Pass	
B9200SVIAL	Recombinant Albumin, Molecular Biology G	10173665	Pass	
B7001SVIAL	NEBuffer™ 1	10150375	Pass	

Assay Name/Specification	Lot # 10180910
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.

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



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www.neb.com/trademarks for additional information.

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1**0 F**eb 2023

Michael Tonello

Packaging Quality Control Inspector

15 Feb 2023