NEW ENGLAND BioLabs Inc.
be INSPIRED drive DISCOVERY stay GENUINE
240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
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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.*
Packaging Lot Number:	*10062107*
Expiration Date:	*08/2021*
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	10062108	**Pass**
B9001SVIAL	Purified BSA	10014762	**Pass**
B7001SVIAL	NEBuffer™ 1	10041625	**Pass**

Assay Name/Specification	**Lot # 10062107**
Protein Purity Assay (SDS-PAGE) hSMUG1 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	**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 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**Pass**
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**

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

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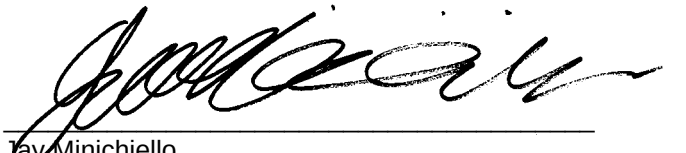
Tony Spear-Alfonso
Production Scientist
12 Sep 2018



Jay Minichiello
Packaging Quality Control Inspector
13 Dec 2019