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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:	Uracil Glycosylase Inhibitor (UGI)
Catalog Number:	M0281L
Concentration:	2,000 U/ml
Unit Definition:	One unit of UGI is defined as the amount of protein required to inhibit one unit of E. coli UDG in 1 hour at 37°C in a total reaction volume of 50 $\mu$ l.
Packaging Lot Number:	10099478
Expiration Date:	11/2022
Storage Temperature:	-20°C
Storage Conditions:	10 mM Tris-HCl , 50 mM KCl , 1 mM DTT , 0.1 mM EDTA , 200 μg/ml BSA , 50% Glycerol, (pH 7.4 @ 25°C)
Specification Version:	PS-M0281S/L v1.0

Uracil Glycosylase Inhibitor (UGI) Component List			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
M0281LVIAL	Uracil Glycosylase Inhibitor (UGI)	10087618	Pass
B0280SVIAL	UDG Reaction Buffer	10098669	Pass

Assay Name/Specification	Lot # 10099478
<b>Endonuclease Activity (Nicking)</b> A 50 µl reaction in NEBuffer 1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 50 units of Uracil Glycosylase Inhibitor (UGI) incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in NEBuffer 1 containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 50 units of Uracil Glycosylase Inhibitor (UGI) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 µl reaction in NEBuffer 1 containing 1 µg of Lambda DNA and a minimum of 30 units of Uracil Glycosylase Inhibitor (UGI) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation 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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Lauren Diggins

Lauren Higgins Production Scientist 04 Feb 2021

on Ol Minhae

Michael Tonello Packaging Quality Control Inspector 04 Feb 2021

