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## 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 μl.

Packaging Lot Number: 10060976
Expiration Date: 12/2021
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)	10060975	Pass	
B0280SVIAL	UDG Reaction Buffer	10049129	Pass	

Assay Name/Specification	Lot # 10060976
Endonuclease Activity (Nicking) 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
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in NEBuffer 1 containing 1 μg of a mixture of single and double-stranded [ ³H] 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
Non-Specific DNase Activity (16 Hour) 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.



M0281L / Lot: 10060976 Page 1 of 2



Lauren Higgins

Lauren Sears Higgins Production Scientist 21 Jan 2020 Josh Hersey

Packaging Quality Control Inspector

23 Mar 2020

