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
www.neb.com
info@neb.com

# New England Biolabs
# Certificate of Analysis

| | |
|---|---|
| *Product Name:* | *Uracil Glycosylase Inhibitor (UGI)* |
| *Catalog Number:* | *M0281S* |
| *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.* |
| *Lot Number:* | *10055791* |
| *Expiration Date:* | *08/2021* |
| *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** | | | |
|---|---|---|---|
| **NEB Part Number** | **Component Description** | **Lot Number** | **Individual QC Result** |
| M0281SVIAL | Uracil Glycosylase Inhibitor (UGI) | 10052635 | **Pass** |
| B0280SVIAL | UDG Reaction Buffer | 10049129 | **Pass** |

| **Assay Name/Specification** | **Lot # 10055791** |
|---|---|
| **Endonuclease Activity (Nicking)**<br>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)**<br>A 50 µl reaction in NEBuffer 1 containing 1 µg of a mixture of single and double-stranded [ $^{3}$H] E. coli DNA and a minimum of 50 units of Uracil Glycosylase Inhibitor (UGI) incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity. | **Pass** |
| **Non-Specific DNase Activity (16 Hour)**<br>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 37ºC 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 Sears Higgins
Production Scientist
11 Jul 2019

Michael Tonello
Packaging Quality Control Inspector
08 Oct 2019