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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: | 10203279 |
| Expiration Date: | 07/2025 |
| 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 | |
| M0281LVIAL | Uracil Glycosylase Inhibitor (UGI) | 10200271 | Pass | |
| B0280SVIAL | UDG Reaction Buffer | 10164157 | Pass | |

| Assay Name/Specification | Lot # 10203279 |
|---|----------------|
| 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 [³ 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 |
| 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.





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Lauren Sears Higgins Production Scientist 28 Jul 2023

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