

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.
Packaging Lot Number: 10235207
Expiration Date: 04/2026
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)	10235206	Pass
B0280SVIAL	UDG Reaction Buffer	10211317	Pass

Assay Name/Specification	Lot # 10235207
<p>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.</p>	Pass
<p>Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 1 containing 1 µg of a mixture of single and double-stranded [³H] <i>E. coli</i> 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.</p>	Pass
<p>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.</p>	Pass

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

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Jamie Souza
Production Scientist
28 Jun 2024



Michael Tonello
Packaging Quality Control Inspector
01 Jul 2024