

## New England Biolabs Certificate of Analysis

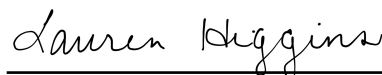
*Product Name:* Uracil Glycosylase Inhibitor (UGI)  
*Catalog #:* M0281S/L  
*Concentration:* 2,000 units/ml  
*Unit Definition:* One unit of UGI is defined as the amount of protein required to inhibit one unit of *E. coli* UDG in 1 hour at 37°C in a total reaction volume of 50 µl.  
*Lot #:* 0031709  
*Assay Date:* 09/2017  
*Expiration Date:* 9/2019  
*Storage Temp:* -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  
*Effective Date:* 05 Feb 2018

Assay Name/Specification (minimum release criteria)	Lot #0031709
<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.	<b>Pass</b>
<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] <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.	<b>Pass</b>
<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.	<b>Pass</b>

\* The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.



Authorized by  
Derek Robinson  
05 Feb 2018



Inspected by  
Lauren Higgins  
26 Sep 2017

