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New England Biolabs Certificate of Analysis

Product Name: Human Alkyladenine Glycosylase (hAAG)

Catalog Number: M0313S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to create an AP

site from 1 pmol of a 34-mer oligonucleotide duplex containing a single deoxyinosine site in a total reaction volume of 10 μ l in 1

hour at 37°C.

Packaging Lot Number: 10095781
Expiration Date: 01/2023
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 100 mM KCl, 1 mM DTT, 0.1 mM EDTA, 0.5 % Tween®

20 , 0.5 % IGEPAL® CA-630 , 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0313S/L v1.0

Human Alkyladenine Glycosylase (hAAG) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0313SVIAL	Human Alkyladenine Glycosylase (hAAG)	10095782	Pass	
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10086110	Pass	

Assay Name/Specification	Lot # 10095781
Protein Purity Assay (SDS-PAGE) hAAG is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in ThermoPol® Reaction Buffer containing 1 µg of Lambda-HindIII DNA and a minimum of 100 units of hAAG incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation 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 hAAG incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Endonuclease Activity (Nicking) A 50 μl reaction in ThermoPol® Reaction Buffer containing 1 μg of supercoiled	Pass



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Assay Name/Specification	Lot # 10095781
PhiX174 DNA and a minimum of 100 units of hAAG incubated for 4 hours at 37°C results	
in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	

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

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Lauren Higgins Production Scientist 25 Jan 2021

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Michael Tonello Packaging Quality Control Inspector 25 Jan 2021

