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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:	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:	10116413
Expiration Date:	07/2023
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)	10116412	Pass	
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10113098	Pass	

Assay Name/Specification	Lot # 10116413
Endonuclease Activity (Nicking) A 50 µl reaction in ThermoPol® Reaction Buffer containing 1 µg of supercoiled 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.	Pass
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	Pass





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Assay Name/Specification	Lot # 10116413
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.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Lauren Diggins

Lauren Higgins Production Scientist 17 Aug 2021

Michae 11.1

Michael Tonello Packaging Quality Control Inspector 17 Aug 2021

