

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: Fpg
Catalog Number: M0240S
Concentration: 8,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to cleave 10

pmol of a 34-mer oligonucleotide duplex containing a single

8-oxoguanine base paired with a cytosine in a total reaction volume

of 10 μ l in 1 hour at 37°C.

Packaging Lot Number: 10057307 Expiration Date: 07/2021 Storage Temperature: -20°C

Storage Conditions: 50 mM NaCl, 20 mM Tris-HCl, 0.5 mM EDTA, 50 % Glycerol, 200 µg/ml

BSA, (pH 8.0 @ 25°C)

Specification Version: PS-M0240S/L v1.0

Fpg Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0240SVIAL	Fpg	10050345	Pass
B9001SVIAL	Purified BSA	10014762	Pass
B7001SVIAL	NEBuffer™ 1	10041625	Pass

Assay Name/Specification	Lot # 10057307
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 24 units of Fpg incubated for 4 hours at 37°C releases <1.0% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 1 containing 1 μg of Lambda-HindIII DNA and a minimum of 40 units of Fpg incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Concentration (A280) The concentration of Fpg is 0.39 mg/ml +/- 10% as determined by UV absorption at 280 nm. Protein concentration is determined by the Pace method using the extinction coefficient of 39,795 and molecular weight of 30,290 daltons for Fpg (Pace, C.N. et al. (1995) Protein Sci., 4, 2411-2423).	Pass



M0240S / Lot: 10057307

Page 1 of 2

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

>90% of the substrate RNA remains intact as determined by gel electrophoresis using

Tony Spear-Alfonso Production Scientist 12 Sep 2018

fluorescent detection.

Michael Tonello

Packaging Quality Control Inspector





M0240S / Lot: 10057307