

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: PflMI
Catalog Number: R0509L
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10097041
Expiration Date: 08/2022
Storage Temperature: -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0509S/L v1.0

PfIMI Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0509LVIAL	PfIMI	10081400	Pass	
B7203SVIAL	NEBuffer™ 3.1	10092685	Pass	

Assay Name/Specification	Lot # 10097041
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and	
double-stranded [3H] E. coli DNA and a minimum of 100 units of PflMI incubated for	
4 hours at 37°C releases <0.1% of the total radioactivity.	
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of supercoiled pNEB193 DNA and a	
minimum of 50 units of PfIMI incubated for 4 hours at 37°C results in <10%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Protein Purity Assay (SDS-PAGE)	Pass
PfIMI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	1 433
detection.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 30 Units of PflMI incubated for 16 hours at 37°C results in a DNA pattern free of	
detectable nuclease degradation as determined by agarose gel electrophoresis.	
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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.

Penghaa Zhang Production Scientist

~75% can be recut with PfIMI.

12 Feb 2021

Josh Hersey

Packaging Quality Control Inspector

12 Feb 2021



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