

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	PspOMI
Catalog Number:	R0653L
Concentration:	20,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of pXba DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.
Lot Number:	10035863
Expiration Date:	02/2021
Storage Temperature:	-20°C
Storage Conditions:	300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 μg/ml BSA
Specification Version:	PS-R0653S/L v1.0

PspOMI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0653LVIAL	PspOMI	10035864	Pass	
B7204SVIAL	CutSmart® Buffer	10031567	Pass	

Assay Name/Specification	Lot # 10035863
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and	Pass
a minimum of 60 Units of PspOMI incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart™ Buffer containing 1 μg of a mixture of single and	Pass
double-stranded [³ H] E. coli DNA and a minimum of 200 units of PspOMI incubated for	
4 hours at 37°C releases <0.1% of the total radioactivity.	
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of pXba DNA with PspOMI, >95% of the DNA fragments	Pass
can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments,	
>95% can be recut with PspOMI.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pXba DNA and a minimum of	
200 Units of PspOMI 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.

Green Duquett

Production Scientist 06 Feb 2019

Michae m. li

Michael Tonello Packaging Quality Control Inspector 26 Feb 2019

