NEW ENGLAND BioLabs Inc.
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:	*MmeI*
Catalog Number:	*R0637S*
Concentration:	*2,000 U/ml*
Unit Definition:	*One unit is defined as the amount of enzyme required to digest 1 µg of PhiX174 RF I DNA in 1 hour at 37°C in 50 µl of reaction buffer.*
Lot Number:	*10043220*
Expiration Date:	*04/2020*
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-R0637S/L v2.0*

MmeI Component List

NEB Part Number	Component Description	Lot Number	Individual QC Result
R0637SVIAL	MmeI	10043222	**Pass**
B9003SVIAL	S-adenosylmethionine (SAM)	10043902	**Pass**
B7204SVIAL	CutSmart® Buffer	10042965	**Pass**

Assay Name/Specification	Lot # 10043220
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of PhiX174 DNA and a minimum of 2 units of MmeI incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**Pass**
Protein Purity Assay (SDS-PAGE) MmeI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	**Pass**
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [^{3}H] E. coli DNA and a minimum of 20 units of MmeI incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity.	**Pass**
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of PhiX174 DNA with MmeI, ~75% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16ºC. Of these ligated fragments, 0% can be recut with MmeI.	**Pass**

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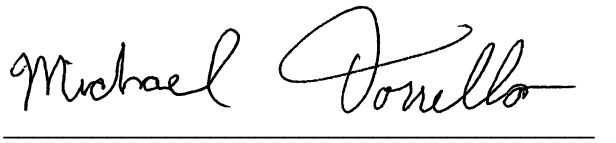
This product has been tested and shown to be in compliance with all specifications.

Jianying Luo
Production Scientist
25 Apr 2019



Michael Tonello
Packaging Quality Control Inspector
07 Jun 2019