NEW ENGLAND
BioLabs Inc.

be INSPIRED
drive DISCOVERY
stay GENUINE

240 County Road
Ipswich, MA 01938-2723

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New England Biolabs
Certificate of Analysis

Product Name:	*DdeI*
Catalog Number:	*R0175S*
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.*
Lot Number:	*10030456*
Expiration Date:	*11/2020*
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-R0175S/L v1.0*

DdeI Component List

NEB Part Number	Component Description	Lot Number	Individual QC Result
R0175SVIAL	DdeI	10030451	**Pass**
B7204SVIAL	CutSmart® Buffer	10021122	**Pass**
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021129	**Pass**

Assay Name/Specification	Lot # 10030456
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E, coli DNA and a minimum of 30 units of DdeI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	**Pass**
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with DdeI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with DdeI.	**Pass**
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 10 Units of DdeI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**Pass**

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

nqa.
ISO 9001
Registered
Quality
Management

nqa.
ISO 13485
Registered
Medical Devices

nqa.
ISO 14001
Registered
Environmental
Management

R0175S / Lot: 10030456
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Tony Spear-Alfonso
Production Scientist
08 Nov 2018

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Michael Tonello
Packaging Quality Control Inspector
05 Dec 2018