

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: Kpnl
Catalog Number: R0142M
Concentration: 50,000 U/ml

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

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

Lot Number: 10028883
Expiration Date: 11/2020
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-R0142M v2.0

Kpnl Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0142MVIAL	Kpnl	10028882	Pass
B7201SVIAL	NEBuffer™ 1.1	0131803	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10010200	Pass

Lot # 10028883	Assay Name/Specification
Pass O fold evenes of Knot religated and	Blue-White Screening (Terminal Integri A sample of pUC19 vector linearized with
, , ,	transformed into an E. coli strain expressi <1% white colonies.
Pass	Endonuclease Activity (Nicking)
	to the nicked form as determined by agard
•	Exonuclease Activity (Radioactivity Re
	·
	hours at 37°C releases <0.1% of the total
	Ligation and Recutting (Terminal Integ
ug of supercoiled PhiX174 DNA and a ours at 37°C results in <20% conversion gel electrophoresis. Se) Pass ug of a mixture of single and num of 100 units of KpnI incubated for 4 loactivity. Pass th KpnI, >95% of the DNA fragments can	Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 1.1 containin minimum of 10 units of KpnI incubated for to the nicked form as determined by agard Exonuclease Activity (Radioactivity Re A 50 μl reaction in NEBuffer 1.1 containin double-stranded [³H] E. coli DNA and a nhours at 37°C releases <0.1% of the total



R0142M / Lot: 10028883

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Pass

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

KpnI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.

Tony Spear-Alfonso **Production Scientist**

25 May 2018

Michael Tonello

Packaging Quality Control Inspector

13 Nov 2018

