

New England Biolabs Certificate of Analysis

Product Name: *BaeI*
Catalog Number: *R0613L*
Concentration: *5,000 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 25°C in a total reaction volume of 50 µl.*
Lot Number: *10049200*
Expiration Date: *06/2020*
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-R0613S/L v1.0*

Bael Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0613LVIAL	Bael	10047981	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10046083	Pass
B7204SVIAL	CutSmart® Buffer	10043347	Pass

Assay Name/Specification	Lot # 10049200
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 5 units of Bael incubated for 4 hours at 25°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 5 Units of Bael incubated for 16 hours at 25°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.



Doreen Duquette
Production Scientist
14 May 2019



Michael Tonello
Packaging Quality Control Inspector
08 Jul 2019