

## 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:** *10040299*  
**Expiration Date:** *03/2020*  
**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	10040300	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10035983	Pass
B7204SVIAL	CutSmart® Buffer	10036665	Pass

Assay Name/Specification	Lot # 10040299
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> 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
<b>Non-Specific DNase Activity (16 Hour)</b> 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  
07 Feb 2019



Michael Tonello  
Packaging Quality Control Inspector  
22 Mar 2019