

New England Biolabs Certificate of Analysis

Product Name: *Bael*
Catalog Number: *R0613S*
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.*
Packaging Lot Number: *10056855*
Expiration Date: *10/2020*
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
R0613SVIAL	Bael	10056853	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10055450	Pass
B7204SVIAL	CutSmart® Buffer	10055735	Pass

Assay Name/Specification	Lot # 10056855
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
21 Oct 2019



Jay Minichiello
Packaging Quality Control Inspector
30 Oct 2019