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New England Biolabs Certificate of Analysis

Product Name: BfuAI
Catalog Number: R0701L
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 NEBuffer™ r3.1 in 1 hour at 50°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10137165
Expiration Date: 01/2024
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 300 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

500 μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0701S/L v2.0

BfuAl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0701LVIAL	BfuAl	10137154	Pass	
B6003SVIAL	NEBuffer™ r3.1	10126635	Pass	

Assay Name/Specification	Lot # 10137165
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer™ r3.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 15 units of BfuAl incubated for 4 hours at 50°C releases <0.1% of the total radioactivity.	
Functional Testing (15 minute Digest) A 50 µl reaction in NEBuffer™ r3.1 containing 1 µg of Lambda DNA and 1 µl of BfuAl incubated for 15 minutes at 50°C results in complete digestion as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer™ r3.1 containing 1 µg of Lambda DNA and a minimum of 15 units of BfuAl incubated for 16 hours at 50°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA	Pass
and a minimum of 5 units of BfuAl is incubated at 37°C. After incubation for 4	



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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Penghaa Zhang Production Scientist

04 Mar 2022

Mary Negal

Packaging Quality Control Inspector

04 Mar 2022



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