

New England Biolabs Certificate of Analysis

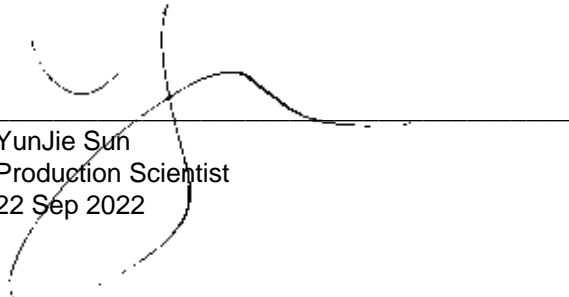
Product Name: BsiHKAI
Catalog Number: R0570S
Concentration: 10,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 65°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10165641
Expiration Date: 09/2024
Storage Temperature: -20°C
Storage Conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA
Specification Version: PS-R0570S/L v1.0

BsiHKAI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0570SVIAL	BsiHKAI	10165640	Pass
B6004SVIAL	rCutSmart™ Buffer	10161524	Pass

Assay Name/Specification	Lot # 10165641
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 100 units of BsiHKAI incubated for 4 hours at 65°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 100 Units of BsiHKAI incubated for 16 hours at 65°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BsiHKAI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with BsiHKAI.	Pass

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

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Production Scientist
22 Sep 2022


Josh Hersey
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11 Oct 2022