

New England Biolabs Certificate of Analysis

Product Name: Haelll
Catalog Number: R0108T
Concentration: 50,000 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 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10058742
Expiration Date: 11/2021
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-R0108T/M v1.0

Haelll Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0108TVIAL	Haelll	10058741	Pass
B7204SVIAL	CutSmart® Buffer	10061299	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10055732	Pass

Assay Name/Specification	Lot # 10058742
<p>Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of Haelll incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.</p>	Pass
<p>Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with Haelll, >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 Haelll.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE) Haelll is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.</p>	Pass
<p>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 Haelll incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass

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

 

Anthony Francis
Production Scientist
04 Nov 2019



Jay Minichiello
Packaging Quality Control Inspector
22 Jan 2020