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New England Biolabs Certificate of Analysis

Product Name: Shrimp Alkaline Phosphatase (rSAP)

Catalog Number: M0371L
Concentration: 1,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme that hydrolyzes 1 µmol

of p-Nitrophenyl Phosphate, PNPP in a total reaction volume of 1 ml

in 1 minute at 37°C

Lot Number: 10041602
Expiration Date: 01/2021
Storage Temperature: -20°C

Storage Conditions: 25 mM Tris-HCl , 1 mM MgCl2 , 50 % Glycerol, (pH 7.5 @ 25°C)

Specification Version: PS-M0371S/L v1.0

Shrimp Alkaline Phosphatase (rSAP) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0371LVIAL	Shrimp Alkaline Phosphatase (rSAP)	10030299	Pass	
B7204SVIAL	CutSmart® Buffer	10043347	Pass	

Assay Name/Specification	Lot # 10041602
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Shrimp Alkaline Phosphatase (rSAP) is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
Protein Purity Assay (SDS-PAGE) Shrimp Alkaline Phosphatase (rSAP) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 4 containing 1 µg of PhiX174-HaeIII DNA and a minimum of 10 units of Shrimp Alkaline Phosphatase (rSAP) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
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 10 units of Shrimp Alkaline	Pass



M0371L / Lot: 10041602

Page 1 of 2

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

Production Scientist

14 May 2019

Michael Tonello

Packaging Quality Control Inspector

25 Jun 2019

