

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: Shrimp Alkaline Phosphatase (rSAP)

Catalog Number: M0371S
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

Packaging Lot Number: 10057229
Expiration Date: 07/2021
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	
M0371SVIAL	Shrimp Alkaline Phosphatase (rSAP)	10048763	Pass	
B7204SVIAL	CutSmart® Buffer	10046082	Pass	

Assay Name/Specification	Lot # 10057229
Protein Purity Assay (SDS-PAGE) Shrimp Alkaline Phosphatase (rSAP) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
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
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
Endonuclease Activity (Nicking) A 50 μl reaction in CutSmart® Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 5 units of Shrimp Alkaline Phosphatase (rSAP) incubated for 4 hours at	Pass



M0371S / Lot: 10057229

Page 1 of 2

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

Ana Egana

radioactivity.

Production Scientist

02 Jan 2020

lay Minichiello

Packaging Quality Control Inspector

02 Jan 2020



M0371S / Lot: 10057229 Page 2 of 2