

## New England Biolabs Certificate of Analysis

**Product Name:** SNAP-Surface<sup>®</sup> 649  
**Catalog Number:** S9159S  
**Lot Number:** 10054891  
**Expiration Date:** 09/2024  
**Storage Temperature:** -20°C  
**Specification Version:** PS-S9159S v3.0

SNAP-Surface <sup>®</sup> 649 Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S9159SVIAL	SNAP-Surface <sup>®</sup> 649	10054892	Pass

Assay Name/Specification	Lot # 10054891
<b>Identity (Mass Spectrometry)</b> The observed molecular mass of SNAP-Surface <sup>®</sup> 649 is 1154.3 Da +/- 1 Da as determined by mass spectrometry analysis.	<b>Pass</b>
<b>In Vitro Protein Labeling</b> A 50 µl reaction in 1X PBS and 1 mM DTT containing 5 µM of SNAP-tag <sup>®</sup> Purified Protein and a minimum of 10 µM of SNAP-Surface <sup>®</sup> 649 is incubated for 1 hour at 37°C results in the expected labeled product that is visualized on SDS-PAGE by fluorescent detection.	<b>Pass</b>
<b>Physical Purity (HPLC)</b> SNAP-Surface <sup>®</sup> 649 is ≥ 90% pure as determined by HPLC analysis.	<b>Pass</b>

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

*Christopher R. Provost*

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Chris Provost  
Production Scientist  
13 Sep 2019

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
16 Sep 2019