

## New England Biolabs Certificate of Analysis

Product Name: SNAP-Surface<sup>®</sup> Alexa Fluor 546  
Catalog Number: S9132S  
Lot Number: 10018744  
Expiration Date: 08/2021  
Storage Temperature: -20°C  
Specification Version: PS-S9132S v2.0

SNAP-Surface <sup>®</sup> Alexa Fluor 546 Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S9132SVIAL	SNAP-Surface <sup>®</sup> Alexa Fluor <sup>®</sup> 546	10018963	Pass

Assay Name/Specification	Lot # 10018744
<p><b>Cellular Protein Labeling (Cell Surface)</b> Mammalian cells transfected with pSNAPf-ADR<math>\beta</math>2 expressing Beta-2 adrenergic receptor (cell surface) were labeled with 5 <math>\mu</math>M SNAP-Surface<sup>®</sup> Alexa Fluor<sup>®</sup> 546 for 1 hour and visualized by fluorescence microscopy resulting in the expected cell surface labeling.</p>	Pass
<p><b>Cellular Protein Labeling (Intracellular)</b> Mammalian cells transfected with pSNAPf-H2B expressing Histone H2B protein (nucleus) were labeled with 5 <math>\mu</math>M SNAP-Surface<sup>®</sup> Alexa Fluor<sup>®</sup> 546 for 1 hour and visualized by fluorescence microscopy resulting in no intracellular labeling.</p>	Pass
<p><b>Identity (Mass Spectrometry)</b> The observed molecular mass of SNAP-Surface<sup>®</sup> Alexa Fluor<sup>®</sup> 546 is 1211.2 Da +/- 1 Da as determined by mass spectrometry analysis.</p>	Pass
<p><b>In Vitro Protein Labeling</b> A 50 <math>\mu</math>l reaction in 1X PBS and 1 mM DTT containing 5 <math>\mu</math>M of SNAP-tag<sup>®</sup> Purified Protein and a minimum of 10 <math>\mu</math>M of SNAP-Surface<sup>®</sup> Alexa Fluor<sup>®</sup> 546 is incubated for 1 hour at 37°C results in the expected labeled product that is visualized on SDS-PAGE by fluorescent detection.</p>	Pass
<p><b>Physical Purity (HPLC)</b> SNAP-Surface<sup>®</sup> Alexa Fluor<sup>®</sup> 546 is <math>\geq</math> 90% pure as determined by HPLC analysis.</p>	Pass

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  
04 Sep 2018

*Mary Conlon*

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Mary Conlon  
Packaging Quality Control Inspector  
05 Sep 2018