

## New England Biolabs Certificate of Analysis

Product Name: SNAP-Cell® 647-SiR  
Catalog Number: S9102S  
Lot Number: 10012851  
Expiration Date: 06/2021  
Storage Temperature: -20°C  
Specification Version: PS-S9102S v2.0

SNAP-Cell® 647-SiR Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S9102SVIAL	SNAP-Cell® 647-SiR	10011008	Pass

Assay Name/Specification	Lot # 10012851
<p><b>Cellular Protein Labeling (Cell Surface)</b> Mammalian cells transfected with pSNAPf-ADRβ2 expressing Beta-2 adrenergic receptor (cell surface) were labeled with 3 μM SNAP-Cell® 647-SiR 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 3 μM SNAP-Cell® 647-SiR for 1 hour and visualized by fluorescence microscopy resulting in the expected intracellular labeling.</p>	Pass
<p><b>Identity (Mass Spectrometry)</b> The observed molecular mass of SNAP-Cell® 647-SiR is 724.3 Da +/- 1 Da as determined by mass spectrometry analysis.</p>	Pass
<p><b>In Vitro Protein Labeling</b> A 50 μl reaction in 1X PBS and 1 mM DTT containing 5 μM of SNAP-tag® Purified Protein and a minimum of 10 μM of SNAP-Cell® 647-SiR 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-Cell® 647-SiR is ≥ 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  
14 Jun 2018



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Josh Hersey  
Packaging Quality Control Inspector  
14 Jun 2018