

## New England Biolabs Product Specification

*Product Name:* SNAP-Cell<sup>®</sup> 430  
*Catalog #:* S9109S  
*Shelf Life:* 60 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-S9109S v2.0  
*Effective Date:* 30 Jul 2018

### Assay Name/Specification (minimum release criteria)

**Cellular Protein Labeling (Cell Surface)** - Mammalian cells transfected with pSNAPf-ADRB<sub>2</sub> expressing Beta-2 adrenergic receptor (cell surface) were labeled with 5 μM SNAP-Cell<sup>®</sup> 430 for 1 hour and visualized by fluorescence microscopy resulting in the expected cell surface labeling.

**Cellular Protein Labeling (Intracellular)** - Mammalian cells transfected with pSNAPf-H2B expressing Histone H2B protein (nucleus) were labeled with 5 μM SNAP-Cell<sup>®</sup> 430 for 1 hour and visualized by fluorescence microscopy resulting in the expected intracellular labeling.

**Identity (Mass Spectrometry)** - The observed molecular mass of SNAP-Cell<sup>®</sup> 430 is 513.2 Da +/- 1 Da as determined by mass spectrometry analysis.

**In Vitro Protein Labeling** - 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-Cell<sup>®</sup> 430 is incubated for 1 hour at 37°C results in the expected labeled product that is visualized on SDS-PAGE by fluorescent detection or gel shift after silver staining.

**Physical Purity (HPLC)** - SNAP-Cell<sup>®</sup> 430 is ≥ 90% pure as determined by HPLC analysis.



Date 30 Jul 2018

Derek Robinson  
Director of Quality Control

