

## New England Biolabs Certificate of Analysis

Product Name: CLIP-Surface™ 488  
Catalog Number: S9232S  
Lot Number: 10019989  
Expiration Date: 06/2021  
Storage Temperature: -20°C  
Specification Version: PS-S9232S v2.0

CLIP-Surface™ 488 Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S9232SVIAL	CLIP-Surface™ 488	10018150	Pass

Assay Name/Specification	Lot # 10019989
<p><b>Cellular Protein Labeling (Cell Surface)</b> Mammalian cells transfected with pCLIPf-NK1R expressing the gene encoding the seven-pass transmembrane protein Neurokinin-1 receptor (NK1R) (cell surface) were labeled with 5 µM CLIP-Surface™ 488 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 pCLIPf-H2B expressing Histone H2B protein (nucleus) were labeled with 5 µM CLIP-Surface™ 488 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 CLIP-Surface™ 488 is 801.2 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 CLIP-tag® Purified Protein and a minimum of 10 µM of CLIP-Surface™ 488 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> CLIP-Surface™ 488 is ≥ 80% 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  
03 Aug 2018

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
20 Sep 2018