NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name: *CLIP-Surface™ 647*
Catalog Number: *S9234S*
Lot Number: *10032565*
Expiration Date: *02/2024*
Storage Temperature: *-20°C*
Specification Version: *PS-S9234S v3.0*

CLIP-Surface™ 647 Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
S9234SVIAL	CLIP-Surface™ 647	10033215	**Pass**

Assay Name/Specification	Lot # 10032565
In Vitro Protein Labeling 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™ 647 is incubated for 1 hour at 37°C results in the expected labeled product that is visualized on SDS-PAGE by fluorescent detection.	**Pass**
Physical Purity (HPLC) CLIP-Surface™ 647 is ≥ 80% pure as determined by HPLC analysis.	**Pass**
Identity (Mass Spectrometry) The observed molecular mass of CLIP-Surface™ 647 is 898.3 Da +/- 1 Da as determined by mass spectrometry analysis.	**Pass**
Cellular Protein Labeling (Intracellular) Mammalian cells transfected with pCLIPf-H2B expressing Histone H2B protein (nucleus) were labeled with 5 µM CLIP-Surface™ 647 for 1 hour and visualized by fluorescence microscopy resulting in no intracellular labeling.	**Pass**
Cellular Protein Labeling (Cell Surface) 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™ 647 for 1 hour and visualized by fluorescence microscopy resulting in the expected cell surface labeling.	**Pass**

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

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