

Certificate of Analysis



Product Name: AQUORA® 488-Maleimide Solution
SKU Number: QBD-12022SL
Lot Number: JB1-Q48801-024
Molecular Weight: 1260

This dye is formulated as a reactive solution in anhydrous dimethylacetamide (DMAc) and corrected for the percent reactive group as shown below in the test results table.

ASSAY	SPECIFICATION	LOT DATA
Appearance	Orange-yellow solution	Orange-yellow solution
Absorbance Maximum (nm) [†]	494 nm ± 4 nm	493 nm
Purity by HPLC-UV*	≥ 75%	95.8%
Percent Reactive Group by HPLC-UV**	>85%	95.8%
Concentration Determination	9.8 mM – 11.0 mM	10.7 mM

[†]All spectrophotometric measurements are performed in a phosphate buffered saline (PBS) solution at pH 7.4.

* Dye purity is determined by HPLC-UV at the maximum absorbance wavelength and is the mean of three (3) samples.

**The percent reactive group is determined by HPLC-UV at the maximum absorbance wavelength and is the mean of three (3) samples.

This document certifies that Lot JB1-Q48801-024 was analyzed and released by Vector Laboratories Quality Control on December 19, 2024, and was found to meet the currently established test parameters.

A handwritten signature in blue ink, appearing to read 'Dave Schory'.

Dave Schory, M.S.
QC Manager

Vector Laboratories certifies on the date above that this is an accurate record of the analysis of the subject lot and that the data conform to the specifications in effect for this product at the time of analysis.