

# Certificate of Analysis



**Product Name:** 5-TAMRA NHS Ester  
**Catalog Number:** FP-1255  
**Lot Number:** 10582  
**Manufacturing date:** 06 FEB 2024  
**Retest date:** 06 FEB 2029  
**Manufacturer:** Vector Laboratories, 8341 E Gelding Drive, Scottsdale, AZ 85260 USA

| Assay                | Lot Data    | Specification                |
|----------------------|-------------|------------------------------|
| Appearance           | Brown solid | Dark red to brown solid      |
| Purity <sup>1</sup>  |             |                              |
| HPLC, 550 nm         | 92.9%       | ≥ 90%                        |
| HPLC, 254 nm         | 92.9%       | ≥ 90%                        |
| LCMS <sup>1</sup>    | Conforms    | In accordance with structure |
| Abs max <sup>2</sup> | 554 nm      | 553 ± 3 nm                   |
| Em max <sup>2</sup>  | 584 nm      | 584 ± 4 nm                   |

<sup>1</sup> Derivatized with butylamine. Purity value represents total reactive dye content.

<sup>2</sup> Solvent PBS, pH 7.5

Quality Assurance *Alexandra Kulyashova*

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Date: 04 MAR 2024

*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.*