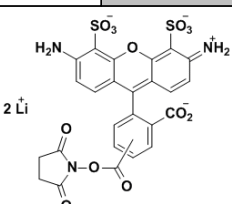


| Certificate of Analysis (C of A) | | | | | |
|-------------------------------------|---|---|---|-------------|-------------|
| Name: | BF 488 5(6)-Acid, SE, 2Li Bella Fluor 488 5(6)-carboxylic acid, Succinimidyl Ester, Dillithium Salt | | | | |
| Catalog Number: | 8050 | Lot: | 51633 | | |
| CAS Number: | 222164-96-7 | Formula: | C ₂₅ H ₁₅ Li ₂ N ₃ O ₁₃ S ₂ | | |
| Molecular Weight: | 643.41 (g/mol) | | | | |
| | | | | | |
| | Observed | Standard | | | |
| HPLC Purity: | 79% at 254 nm | ≥ 50% at 254 nm | | | |
| Absorption (Buffer pH 7) | | | | | |
| Wavelength (λ _{max}): | 494 nm | 493 ± 3 nm | | | |
| Extinction: | Set 75,000 cm ⁻¹ M ⁻¹ | Set 75,000 ± 7,000 cm ⁻¹ M ⁻¹ | | | |
| Fluorescence (Buffer pH 7) | | | | | |
| Emission Max: | 518 nm | 518 ± 4 nm | | | |
| Storage: | Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L) | | | | |
| Production Lot: | 16157 | Release: | 05-Jun-2019 | Expiration: | 05-Jun-2024 |
| Structure: |  | | | | |

This data reflects the accuracy of the analysis of the subject lot
 For research use only. Not for human use. No animal source.
 This material is chemically synthesized and manufactured in the USA

Approved by: Dianna M Wineinger
 Analytical Services Manager

Date: 05-Jun-2019

Signature: 