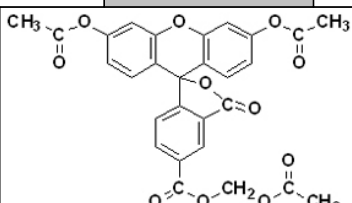


Certificate of Analysis

(C of A)

| | | | | | |
|---------------------------------|---|--|--|---|-------------|
| Name: | | 5-CFDA, AM 5-Carboxyfluorescein diacetate, AM ester | | | |
| Catalog Number: | 6929 | Lot: | | 51627 | |
| CAS Number: | 124412-00-6 | Formula: | | C ₂₈ H ₂₀ O ₁₁ | |
| Molecular Weight: | 532.45 (g/mol) | | | | |
| | | | | | |
| | Observed | | Standard | | |
| HPLC Purity: | 99% at 254 nm | | ≥ 90% at 254 nm | | |
| Absorption (Methanol) | | | | | |
| Wavelength (λ _{max}): | 291 nm | | 290 ± 3 nm | | |
| Extinction: | 6,200 cm ⁻¹ M ⁻¹ | | 6,000 ± 600 cm ⁻¹ M ⁻¹ | | |
| TLC Purity: | > 99% | | ≥ 90% | | |
| TLC System: | 1:1 Hexane/ Ethyl acetate | | | | |
| Storage: | Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L) | | | | |
| Production Lot: | 14539 | Release: | 07-Nov-2014 | Expiration: | 07-Nov-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: 07-Nov-2014

Signature: 