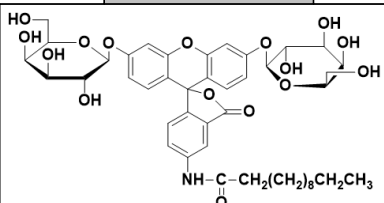


## Certificate of Analysis

(C of A)

|                                 |                                                                                     |                                                                                    |                                              |                                                  |             |
|---------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------|-------------|
| Name:                           |                                                                                     | <b>C<sub>12</sub>FDG</b><br>5-Dodecanoylamino fluorescein Di-β-D-Galactopyranoside |                                              |                                                  |             |
| Catalog Number:                 | 7188                                                                                | Lot:                                                                               |                                              | 51856                                            |             |
| CAS Number:                     | 138777-25-0                                                                         | Formula:                                                                           |                                              | C <sub>44</sub> H <sub>55</sub> NO <sub>16</sub> |             |
| Molecular Weight:               | 853.90 (g/mol)                                                                      |                                                                                    |                                              |                                                  |             |
|                                 |                                                                                     |                                                                                    |                                              |                                                  |             |
|                                 | Observed                                                                            |                                                                                    | Standard                                     |                                                  |             |
| HPLC Purity:                    | 96% at 254 nm                                                                       |                                                                                    | ≥ 95% at 254 nm                              |                                                  |             |
| Absorption (Methanol)           |                                                                                     |                                                                                    |                                              |                                                  |             |
| Wavelength (λ <sub>max</sub> ): | 290 nm                                                                              |                                                                                    | 290 ± 3 nm                                   |                                                  |             |
| Extinction:                     | 6,200 cm <sup>-1</sup> M <sup>-1</sup>                                              |                                                                                    | 5,800 ± 500 cm <sup>-1</sup> M <sup>-1</sup> |                                                  |             |
| Fluor Bkgd:                     | < 1 ppm at 518nm                                                                    |                                                                                    | < 100 ppm                                    |                                                  |             |
| Storage:                        | Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L) |                                                                                    |                                              |                                                  |             |
| Production Lot:                 | 16267                                                                               | Release:                                                                           | 31-Oct-2019                                  | Expiration:                                      | 31-Oct-2029 |
| 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:** 31-Oct-2019

**Signature:** Dianna M Wineinger