



## CERTIFICATE OF ANALYSIS

**Catalog Number** C016  
**Product Name** 'DiO'; DiOC<sub>18</sub>(3) (3,3'-dioctadecyloxacarbocyanine perchlorate)  
**CAS Number** 34215-57-1  
**Molecular Formula** C<sub>53</sub>H<sub>85</sub>ClN<sub>2</sub>O<sub>6</sub>  
**Molecular Weight** 881.72  
**Appearance** orange solid  
**Lot Number** AB3202

	LOT DATA	SPECIFICATION
<b>Absorption</b> <sup>1</sup> Maximum Extinction	485 nm 154,000 cm <sup>-1</sup> M <sup>-1</sup>	485 ± 4 nm 160,000 ± 12,000 cm <sup>-1</sup> M <sup>-1</sup>
<b>Fluorescence</b> <sup>1</sup> Emission Maximum	500 nm	502 ± 4 nm
<b>HPLC</b> Purity	96 % at 490 nm	≥ 95 % at 490 nm
<b>NMR</b> Result	meets specification	consistent with structure

1. Solvent: Methanol.