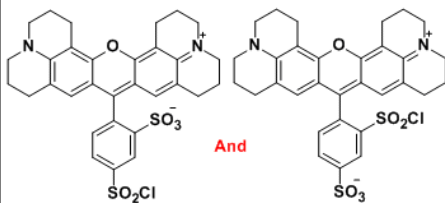


Certificate of Analysis

(C of A)

| | | | | | |
|---------------------------------|----------------|--|-------------|--|-------------|
| Name: | | SR 101 Sulfonyl Chloride *Mixed isomers* Texas Red™ Sulfonyl Chloride, mixed isomers *TM of MP* | | | |
| Catalog Number: | 6846 | Lot: | | 50360 | |
| CAS Number: | 82354-19-6 | Formula: | | C ₃₁ H ₂₉ ClN ₂ O ₆ S ₂ | |
| Molecular Weight: | 625.17 (g/mol) | | | | |
| | | | | | |
| | | Observed | | Standard | |
| Absorption (Chloroform) | | | | | |
| Wavelength (λ _{max}): | | 587 nm | | 588 ± 3 nm | |
| Extinction: | | 76,200 cm ⁻¹ M ⁻¹ | | 82,000 ± 8,000 cm ⁻¹ M ⁻¹ | |
| TLC Purity: | | > 90% | | ≥ 85% | |
| TLC System: | | 50:35:15 Chloroform / Acetonitrile / Isopropyl alcohol + N-butylamine | | | |
| Storage: | | Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L) | | | |
| Production Lot: | 14505 | Release: | 13-Jan-2021 | Expiration: | 17-Oct-2019 |
| 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: 13-Jan-2021

Signature: 