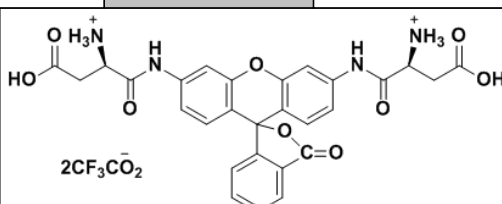


Certificate of Analysis (C of A)					
Name:		Rh110-2(Asp) *D2R* *D)2-Rh 110 (trifluoroacetate salt)* Rhodamine 110, bis-(L-aspartic acid amide), trifluoroacetic acid salt			
Catalog Number:		6278	Lot:		50935
CAS Number:		220846-63-9	Formula:		C ₃₂ H ₂₆ F ₆ N ₄ O ₁₃
Molecular Weight:		788.57 (g/mol)			
		Observed	Standard		
HPLC Purity:		96% at 254 nm	≥ 90% at 254 nm		
Absorption (Water)					
Wavelength (λ _{max}):		235 nm	234 ± 3 nm		
Extinction:		52,300 cm ⁻¹ M ⁻¹	55,000 ± 5,000 cm ⁻¹ M ⁻¹		
TLC Purity:		> 99%	≥ 90%		
TLC System:		90:10 Chloroform / Methanol			
Storage:		Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)			
Production Lot:		14452	Release:	16-Sep-2014	Expiration: 16-Sep-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: 16-Sep-2014

Signature: 