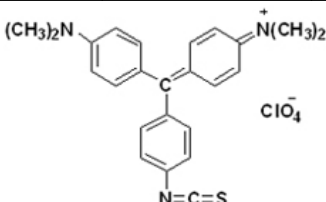


Certificate of Analysis

(C of A)

Name:		MGITC Malachite Green Isothiocyanate						
Catalog Number:		6591	Lot:		51694			
CAS Number:		147492-82-8	Formula:		C ₂₄ H ₂₄ ClN ₃ O ₄ S			
Molecular Weight:		485.98 (g/mol)						
		Observed		Standard				
HPLC Purity:		99% at 254 nm		≥ 90% at 254 nm				
Absorption (Acetonitrile)								
Wavelength (λ _{max}):		629 nm		629 ± 3 nm				
Extinction:		89,000 cm ⁻¹ M ⁻¹		84,000 ± 7,000 cm ⁻¹ M ⁻¹				
TLC Purity:		> 98%		≥ 90%				
TLC System:		75:20:5 Chloroform / Methanol / Acetic acid						
Storage:		Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)						
Production Lot:		11934	Release:		20-Apr-2013	Expiration:		20-Apr-2023
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: 20-Apr-2013

Signature: 