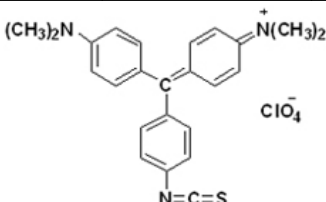


## Certificate of Analysis

(C of A)

Name:		<b>MGITC</b> Malachite Green Isothiocyanate			
Catalog Number:		6591		Lot:	50712
CAS Number:		147492-82-8		Formula:	C <sub>24</sub> H <sub>24</sub> ClN <sub>3</sub> O <sub>4</sub> S
Molecular Weight:		485.98 (g/mol)			
		Observed		Standard	
HPLC Purity:		99% at 254 nm		≥ 90% at 254 nm	
Absorption (Acetonitrile)					
Wavelength (λ <sub>max</sub> ):		629 nm		629 ± 3 nm	
Extinction:		89,000 cm <sup>-1</sup> M <sup>-1</sup>		84,000 ± 7,000 cm <sup>-1</sup> M <sup>-1</sup>	
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:** 