



## CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA  
Tel: (416) 665-9696, Fax: (416) 665-4439  
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

### 1. Identification

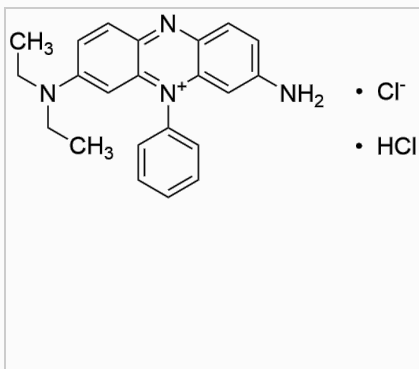
**Catalogue Number:** M236755

**CAS Number:** 4569-86-2

**Product:** Methylene Violet 3RAX (~90%)

**Synonym:** 3-Amino-7-(diethylamino)-5-phenylphenazin-5-ium Chloride; C.I. 50206; Diethylsafranin; 3-Amino-7-diethylamino-5-phenylphenazinium Chloride;

**Structure:**



**Molecular Formula:**

C<sub>22</sub>H<sub>23</sub>N<sub>4</sub> • Cl

**Molecular weight:**

343.45 + (35.45)

**Source of Product:**

N/A

**Solubility:**

DMSO (Slightly), Methanol (Slightly)

**Lot Number:** 2023-QIU-277

**Purity:** ~90%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Very Dark Blue to Black Solid	Very Dark Blue to Black Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 57.68, %H: 5.22, %N: 12.20
MS	Conforms to Structure	Conforms
FT-IR	Conforms to Structure	Conforms
UV Absorbance	Report Result	202 nm, 274 nm, 557 nm
Chloride Content	Report Result	15.8%

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Nicole Yip	Toni Rantanen	Chanell Chu	6/16/2023	6/14/2027