

### **CERTIFICATE OF ANALYSIS**

NAME OF PRODUCT - METHYLENE BLUE			
AMOUNT RECEIVED FOR ANALYSIS	25 Gm	CAS .NO	7220-79-3
BATCH NO.	MB-0125	DATE OF RECEIPT	13.01.2025
DATE OF ANALYSIS	13.01.2025	ANALYTICAL REPORT NO.	MB-0125
MFG.DT	JAN.2025	EXP .DT	DEC.2027

SR.NO	CRITERIA	LIMIT/SPECIFICATION	TEST RESULTS
1.	APPEARANCE	Dark green or blue crystals or crystalline powder having a bronze-like luster.	Dark green or blue crystals or crystalline powder having a bronze-like luster.
2.	IDENTIFICATION	Must Pass A to D tests	Passes tests
3.	SOLUBILITY	Soluble in 40 parts of water, 110 parts of alcohol (95%) & in 450 parts of chloroform.	Complies
4.	ASSAY (WITH REFERENCE TO SUBS. DRIED AT 105°C & AS % OF (C <sub>16</sub> H <sub>18</sub> N <sub>3</sub> ClS))	NLT 99.0% & NMT the equivalent of 101.0%	100.51%
5.	RELATED SUBSTANCES		
a.	AZURE-B	< 2.5 %	Complies
b.	AZURE-A	< 0.1 %	Complies
c.	AZURE-C	< 0.1 %	Complies
6.	ORGANIC IMPURITIES		
a.	Specified Organic Impurities	< 0.1 %	Complies
b.	Unspecified Organic Impurities	< 0.05 %	Complies
7.	RESIDUE ON IGNITION	NMT 0.15 %	Passes Test
8.	HEAVY METALS		
a.	Mercury (Hg)	NMT 0.00005 %	Passes Test

b.	Cadmium (Cd)	NMT 0.00005 %	Passes Test
c.	Arsenic (As)	NMT 0.00005 %	Passes Test
d.	Lead (Pb)	NMT 0.00005 %	Passes Test
9.	OTHER METALS	NMT 0.005 % (in total)	Passes Test
10.	SPECIFIC TESTS		
a.	LOSS ON DRYING (Dried to constant weigh at 105°C)	LIMIT: NLT 8.0% - NMT 15.0% of its weight	12.39%
b.	Bacterial Endotoxin Test	< 2.5 EU/mg	Passes Test

**REPORT:- THE SAMPLE SUBMITTED FOR ANALYSIS COMPLIES WITH SPECIFICATIONS OF THE STANDARD .**



**ANALYTICAL CHEMIST**