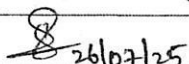
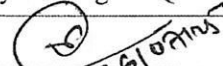
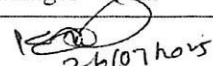


CERTIFICATE OF ANALYSIS

Product Name	Methylene Blue USP		
Reference	USP/In - House	Mfg. Date	13/10/2024
Batch No.	4026/3/015/24	Expiry Date	12/10/2027
Date of Analysis	23/10/2024	Dispatch Qty	3.00 Kg.
Name of the Customer	M/s. ZUVCHEM		

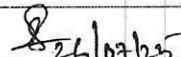
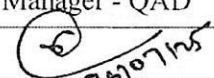
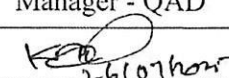
S. No.	Test Parameter	Specification	Result
1.	Description	Dark green or blue crystals or crystalline powder having a bronze-like luster. Its solution in water and in alcohol are deep blue in color.	Dark green crystalline powder having a bronze-like luster. Its solution in water and in alcohol are deep blue in color
2.	Solubility	Slightly soluble in Water	Complies
		Slightly soluble in Ethanol	Complies
3.	Identification by		
	3.1 IR Spectroscopy	The IR spectrum of the sample should be match with that of standard spectrum.	Complies
	3.2 HPLC	The retention time of the major peak in chromatogram of the sample preparation correspond to that of the chromatogram of the standard preparation, as obtained in the assay by HPLC.	Complies
	3.3 Ultraviolet Absorption	Should exhibit absorption maxima at spectral 255-260nm, 285-290nm, 670-680nm and 740-750nm	Complies
	3.4 Chloride	Meets the requirements	Complies
4.	Methanol insoluble Substances (%)	Not more than 1.0	0.21
5.	Loss on Drying (%w/w)	Between 8.0 and 22.0	14.25
6.	Residue on ignition (%w/w)	Not more than 0.15	0.09

	Prepared By	Checked By	Approved By
Name	M. Saikumar	E. Naga Brahmam	Baburao Koyyagura
Designation - Dept.	Sr. Chemist - QAD	Dy. Manager - QAD	Manager - QAD
Sign & Date	 26/10/25	 26/10/25	 26/10/25

CERTIFICATE OF ANALYSIS

Product Name	Methylene Blue USP		
Reference	USP/In - House	Mfg. Date	13/10/2024
Batch No.	4026/3/015/24	Expiry Date	12/10/2027
Date of Analysis	23/10/2024	Dispatch Qty	3.00 Kg.
Name of the Customer	M/s. ZUVCHEM		

S. No.	Test Parameter	Specification	Result
7.	Organic impurities by HPLC (% w/w)		
	a) Azure-B	Not more than 2.5	1.9
	b) Any Unspecified impurity	Not more than 0.10	0.06
	c) Total impurities other than Azure-B	Not more than 0.5	0.06
8.	Assay by HPLC (%w/w, On dried basis)	Not less than 97.0 and Not more than 103.0	98.7
9.	Elemental impurities by ICP-MS (ppm)		
	a) Arsenic	Not more than 8	0.13
	b) Copper	Not more than 200	36.31
	c) Zinc	Not more than 100	6.03
10.	Residual Solvents by HS-GC (ppm)		
	a) Methanol	Not more than 3000	719
	b) Acetone	Not more than 5000	BDL
	c) Isopropyl alcohol	Not more than 5000	BDL

	Prepared By	Checked By	Approved By
Name	M. Saikumar	E. Naga Brahmam	Baburao Koyyagura
Designation - Dept.	Sr. Chemist - QAD	Dy. Manager - QAD	Manager - QAD
Sign & Date	 26/10/24	 26/10/24	 26/10/24

CERTIFICATE OF ANALYSIS

Product Name	Methylene Blue USP		
Reference	USP/In - House	Mfg. Date	13/10/2024
Batch No.	4026/3/015/24	Expiry Date	12/10/2027
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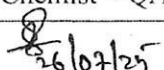
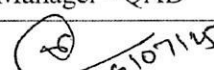
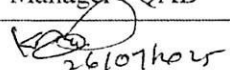
Chemical Name of Impurities:

Azure - B: 3-(Dimethylamino)-7-(methylamino)-phenothiazine-5-ium chloride

Packaging Conditions: The product shall be packed in transparent LDPE primary bag with nitrogen purging and tied with nylon strip then placed in black color LDPE secondary bag with silica gel desiccant and tied with nylon strip, than placed in triple laminated aluminum bag and seal with heat, finally placed in HDPE container with clamp.

Storage Conditions: Store in a tight, light resistant container at 25°C. Excursions permitted to 15 and 30°C.

Remarks: The material Complies with the above specification.

	Prepared By	Checked By	Approved By
Name	M. Saikumar	E. Naga Brahmam	Baburao Koyyagura
Designation - Dept.	Sr. Chemist - QAD	Dy. Manager - QAD	Manager - QAD
Sign & Date	 26/07/25	 26/07/25	 26/07/25