

**Qualikems**

## Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)

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### CERTIFICATE OF ANALYSIS

Name of Product	: Copper Sulfate Pentahydrate	CAS No.	: 7758-99-8
Molecular Formula	: $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	Molecular Weight	: 249.7 g/mole
Batch No.	: QLP2412009	Grade	: BP
Mfg. Date	: December-2024	Retest Date	: November-2029

Sr. No.	Tests	Specification	Observation
1	Appearance	Blue crystalline powder or transparent, blue crystals.	Complies
2	Solubility	Freely soluble in water, Soluble in methanol, practically insoluble in ethanol (96 per cent).	Complies
3	Identification	A) Add several drops of dilute ammonia R2 to 1 mL of solution S (see Tests). A blue precipitate is formed. On further addition of dilute ammonia R2 the precipitate dissolves and a dark blue colour is produced B) Loss on drying (see Tests). C) Dilute 1 mL of solution S to 5 mL with water R. The solution gives reaction (a) of sulfates	Complies Complies Complies
4	Solution S	Dissolve 5 g in water R and dilute to 100 mL with the same solvent.	Complies
5	Appearance of solution	Solution S is clear	Complies
6	Chloride	Max 100 ppm	< 100 ppm
7	Cobalt	Max 1 ppm	< 1 ppm
8	Lead	Max 20 ppm	< 20 ppm
9	Nickel	Max 20 ppm	< 20 ppm
10	Iron	Max 100 ppm	< 100 ppm
11	Loss on drying (at $250 \pm 10^\circ\text{C}$ )	35.0 – 36.5 %	35.42 %
12	Assay	99.0 – 101.0 %	99.58 %

**Conclusion:** Product complies as per above specification.

Analyzed By	Reviewed By	Approved By/Date
QC Chemist	QC Manager	QA Manager
Signature & Date	Signature & Date	Signature & Date
 01/03/2025	 01/03/2025	 01/03/2025

(An ISO 9001 : 2015 &amp; 14001 : 2015 &amp; 45001:2018 Certified Company)

\*NSIC - CRISIL SE 2B which indicates " High Performance Capability &amp; Moderate Financial Strength\*