

Copper sulfate Pentahydrate USP Specification

Sr.No	Test	Specification
1	Description	Blue, Crystalline powder or transparent, blue crystals
2	Solubility	Freely soluble in water, soluble in methanol, practically insoluble in ethanol (96 per cent)
3	Identification by Copper	It gives reaction of Copper.
4	Identification by Sulfates	It gives reaction of Sulfates.
5	Sodium	Not more than 0.02%
6	Potassium	Not more than 0.01%
7	Calcium	Not more than 0.005%
8	Iron	Not more than 0.003%
9	Nickel	Not more than 0.005%
10	Loss on drying	33.0% to 36.5%
11	Assay on the dried basis	Not less than 98.50% and Not more than 100.50%