

Calamine USP Specification

Sr.No	Test	Specification
1	Description	Fine, pale pink to red powder
2	Solubility	Practically insoluble in water. It dissolves with effervescence in hydrochloric acid
3	Identification by Zinc Test	Positive (meets general zinc identification)
4	Identification by Ferric Oxide Test	Reddish color upon adding ammonium thiocyanate
5	Lead	No turbidity with potassium chromate TS
6	Arsenic	Not more than 8 ppm
7	Calcium	Not more than slight turbidity (ammonium oxalate test)
8	Calcium or Magnesium	Not more than slight turbidity (dibasic sodium phosphate test)
9	Loss on Ignition	Not more than 2.0%
10	Acid-Insoluble Substances	Not more than 2.0%
11	Alkaline Substances	Not more than 0.2 mL of 0.10 N H ₂ SO ₄ to neutralize
12	Assay Zinc Oxide Content (ZnO)	98.00% – 100.50% (on ignited basis)