

SPECIFICATION SHEET

Zinc Sulphate Heptahydrate

Sr. No.	Test	Specification	Reference
1.	Description	Colorless, transparent crystals or a white, crystalline powder; odourless; efflorescent.	IP/BP/EP/USP
2.	Solubility	Very soluble in water, practically insoluble in ethanol (96%).	BP/EP/USP
3.	Identification	(A) The reactions of 'Zinc salts'. (B) The reactions of 'Sulphates'.	(A) & (B) IP/BP/EP/USP
4.	Appearance of Solution	Solution A is clear and colourless.	IP/BP/EP
5.	pH	Between 4.4 to 5.6	IP/BP/EP
6.	Arsenic	Not more than 10 ppm.	IP/USP
7.	Lead	Not more than 20 ppm.	USP
8.	Iron	Not more than 100 ppm.	IP/BP/EP
9.	Chloride	Not more than 250 ppm.	IP/BP/EP
10.	Alkalies and Alkaline Earths	Not more than 0.9% w/w.	USP
11.	Assay as 'Zn So ₄ , 7H ₂ O'.	(A) Not less than 99.0% w/w and not more than 104.0% w/w of 'ZnSO ₄ , 7H ₂ O'. (B) Not less than 99.0% w/w and not more than 108.7% w/w of 'ZnSO ₄ , 7H ₂ O'.	(A) IP/BP/EP (B) USP
12.	Acidity	The sample solution is not colored pink by methyl orange.	USP
13.	Bulk Density	0.8 g/ml to 1.0 g/ml	IHS
14.	Tap Density	1.0 g/ml to 1.2 g/ml	IHS
15.	Sieve Analysis (A) (-) 20# (B) (-) 30# (C) (-) 40#	(A) 100.00% w/w (B) NLT 80.00% w/w (C) NLT 60.00% w/w	(A), (B) & (C) IHS