

**DIBASIC CALCIUM PHOSPHATE (DIHYDRATE) SPECIFICATIONS AS PER  
USP/EP/BP/IP/IH**

Sr. No.	TESTS	SPECIFICATIONS
1.	Description	White or Almost White, Crystalline Powder
2.	Solubility	Practically insoluble in water and in ethanol (96%) It dissolve in dilute hydrochloric acid and in dilute nitric acid.
3.	Identification	A Dissolve with heating 0.1 gin 10 ml of dilute hydrochloric acid R. Add 2.5 mL of dilute ammonia R1, shake and add 5 ml of a 35 g/l solution of ammonium oxalate R. A white precipitate is produced.
B		Dissolve 0.1 gin 5 ml of dilute nitric acid R, add 2 ml of ammonium molybdate solution R and heat at 70°C for 2 min. A Yellow precipitate is produced.
C		It complies with the limits of the assay
4.	Acid insoluble substances	Not more than 0.2%
5.	Carbonates	No effervescence is produced
6.	Chloride	Not more than 0.25%
7.	Fluorides	Not more than 100 ppm
8.	Sulphate	Not more than 0.5%
9.	Arsenic	Not more than 10 ppm
10.	Barium	No Turbidity is produced
11.	Iron	Not more than 400 ppm
12.	Heavy Metals	Not more than 40 ppm
13.	Loss on ignition (800°C to 825°C)	24.5 - 26.5%
14.	Assay	98.0 - 105.0 %