

Certificate of Analysis			
Product Name		Colloidal Silicon Dioxide USP	
Sr No.	Parameters	Specifications	Result
1	Description	White, Fine, Light amorphous odourless powder.	Complies
2	Solubility	Practically insoluble in water and mineral acids Expect in hydrofluoric acid, dissolve in alkali on heating	Complies
3	Identification	Should pass the test	Complies
4	Loss on Drying, (at 105°C, 2 hrs.)	2.5% Max.	Complies
5	Loss on Ignition, on anhydrous basis (At 1000°C for 2 hrs.)	2.0% Max	Complies
6	pH (1 gm in 25 ml aqu. suspn	3.5 to 4.5	Complies
7	Assay, (SiO ₂ ; on Ignited basis)	99.0% to 100.5%	Complies
8	Heavy Metals as Pb	25.0 Max. ppm	Complies
9	Arsenic	8.0 Max. ppm	Complies
10	Chloride	250 Max. ppm	Complies
11	Bulk Density, Tapped (while Material packed)	40.0 to 80.0 gm/ltr	Complies
12	Residue on 325 mesh (Wet Sieving)	Nil	Complies
13	Iron Content (Fe+3)	200 max	Complies
14	Volume of 5 gm	Not < 32.5 ml	Complies
15	Average Particle Size- D50 (By Malvern Instrument)	5 Microns max	Complies
PACKING AND STORAGE: The product is an Inert inorganic material and chemically stable. However due to nature of the material, it can absorb moisture and odour from the surrounding. Recommended storage of bags in sealed conditions only in a ventilated room at room temperature. No special storage conditions required.			