

## CERTIFICATE OF ANALYSIS

### Calamine I.P. (USP)

Product Name: Calamine Clay  
 Product Number: CALAMICLAY-2303

#### TEST RESULTS

S. NO	TEST PERFORMED	LIMIT	RESULTS
1	DESCRIPTION	Soft, Light pink powder, free from grittiness,	COMPLIES
2	SOLUBILITY	Insoluble in water, soluble in mineral acids.	COMPLIES
3	IDENTIFICATION	A) A solution in dil. hydrochloric acid gives the reaction of zinc. B) Shake 1g with 10ml of dil Hcl, heat to boiling and filter. to the filtrate add few drops of ammonium thiocyanate sol., a reddish color is produced.	COMPLIES
4	ALKALINITY	Mix 1 g with 10 ml of hot water and add 2 drops of phenolphthalein solution if a red color is produced, NMT 0.2 ml of 0.05 n Hcl is required to discharge it.	COMPLIES
5	ACID INSOLUBLE MATTER	NMT 1%	0.75%
6	WATER SOLUBLE DYES.	Shake 1g with 10 ml of water and filter, filtrate is colorless.	COMPLIES
7	ETHANOL SOLUBLE DYES	Shake 1g with 10 ml of ethanol (90%) and filter, filtrate is colorless.	COMPLIES
8	ARSENIC	NMT 8 ppm	COMPLIES
9	LEAD	Dissolve 2g in 20 ml of water and 5 ml glacial acetic acid, filter and add 0.25 ml of potassium chromate sol. the sol. remains clear.	COMPLIES
10	CALCIUM	Solution remains clear.	COMPLIES
11	CHLORIDE	NMT 750 ppm	COMPLIES
12	SULPHATE	NMT 0.6%	COMPLIES
13	SOLUBLE BARIUM SALTS	The sol. remains clear	COMPLIES
14.	LOSS ON IGINATION	NMT 2.0%	0.65%
15.	ASSAY	NLT 98%	98.50 %
REMARK- The above material passes as per I.P. Specification.			