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CERTIFICATE OF ANALYSIS

PRODUCT NAME: Calamine Powder

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T.R. NO. BP-E-146

B NO. 4572

Analysing Date 22-12-2020

Version No V1.0BI

Sample Receiving Date 16-12-2020

Exp. Date 30.11.25

AVG PARTICLE SIZE. NMT 27 MICRONS

TEST RESULTS S. TEST LIMIT RESULTS NO PERFORMED

1

Colour

Pink Coloured Powder

Pink Coloured Powder

2

Identification

A)Yields the reactions characteristic of carbonates

Complies

B)To 2g add 5ml. of hydrochloric acid and heat to boiling if necessary, add hydrochloric acid drop wise until a bright yellow solution is obtained. Cool and add 13.5m ammonia until the first sign of precipitate (solution A). The solution yields reaction B characteristic of iron salts. Dilute 1 mL of solution A to 5ml. with water, the solution yields the reaction characteristic of zinc salts.

3

Calcium

Dissolve 0.50g. in a mixture of 10ml. of water and

Complies

2.5ml of glacial acetic acid and filter. To 0.5ml. of the (solution remains clear)

filtrate add 15 ml. of 5M ammonia and 2 ml. of a 2.5% w/v solution of ammonium oxalate and allow to stand for 2 minutes.

4

Soluble barium salts

Add 2 ml. of 1 m sulphuric acid and allow to stand for

Complies

5 minutes

(solution remains clear)

5

Lead

Not more than 150 ppm. When determined by atomic

Complies

absorption spectrophotometer.

6

Chloride

Dissolve 0.15g. in water with the addition of 1ml. of nitric

Complies

acid, filter and dilute to 30ml with water. Test for chloride.

7

Sulphate

Dissolve 0.1g. in water with the addition of 3ml of 2m

Complies

hydrochloric acid, filter and

dilute to 60ml with

water. No reaction of sulphates

8

Ethanol soluble dyes

Shake 1.0g. with 10ml of ethanol (90%) and filter.

Complies

The filtrate is colourless (test as per B.P.)

9

Matter insoluble in

Dissolve 1g. in 20ml of warm 2m hydrochloric acid

7mg.

Hydrochloric acid

and filter. The residue, when washed with water and

dried to constant weight at 105^o, weighs not more

than 10mg.

10

Water soluble dye

Shake 1.0g. with 10ml of water and filter. (The

Complies

filtrate is colorless (test as per B.P.)

11

Residue on ignition

As per B.P. (68% - 74% w/w)

71.80%

REMARK- The above material passes as per specification