

Specification

Product: **Boswellia serrata Extract (BA 75%)**
Product code: IBO04

Issue no: 03
Issue date: 15th Sep 2011

Physical and Chemical Parameters:

S. N ^o	Tests	Requirements
1	Description: Appearance Odour and taste	Off white to cream coloured powder Characteristic of Boswellia
2	Identification	The principal spots obtained with Boswellia serrata ext RS shall match with that of sample in TLC
3	Solubility	Insoluble in water.
4	Extract Ratio	4-8:1
5	Extractive value (% w/w) Ethyl acetate Methanol	Not less than 90% Not less than 80%
6	pH of 1% suspension	Between 4 and 7
7	Loss on drying (at 105 Deg C by IR Balance)	NMT 4 % w/w
8	Total Ash	NMT 5.0% w/w
9	Acid insoluble ash	NMT 1.0 % w/w
10	Heavy metals Arsenic Chromium Cadmium Lead Mercury Zinc Total	NMT 1 ppm NMT 0.5 ppm NMT 0.3 ppm NMT 0.5 ppm NMT 0.2 ppm NMT 5 ppm NMT 10 ppm
11	Assay as Boswellic acids by HPLC	Min 75% w/w
12	Particle size profile	100% through 40 mesh
13	Nitrogen (IP 2 nd ed. P.533)	Absent
14	Organic volatile Impurity (Residual Solvents)	Not more than 0.05 % w/w
15	Aflatoxins	NMT 5 ppb
16	Pesticide residue (Tested for Organochlorine and organo phosphorous pesticides)	Minimum detectable limit: 0.2 ppm
17	Microbiological analysis: Total plate count Enterobacteria Pathogens: E. coli Salmonella Pseudomonas aeruginosa Staphylococcus aureus Coliforms Yeast & Mould count	NMT 5,000 Cfug NMT 100 Cfug Absent Absent Absent Absent Absent Absent Absent NMT 100 Cfug

Origin of raw material	India	Labeling	As specified by the customer with an indication as "Syn:Boswellia serrata Extract 75% Boswellic acid"
Cultivated or Wild Crafted	Wild crafted	Storage	Recommended to keep in a clean, dry (60% RH), and cool (25° C) place.
Packing	5 kg to 25 kg net in a HDPE drum with inner polyliners	Handling	Avoid direct contact with body parts. Use, gloves and goggle. Avoid inhaling.
Shelf Life	3 Years (Stability data available)	Raw material	Boswellia serrata gum (Botanical Name: Boswellia serrata)
Drying method	Vacuum	Extraction Solvent	Aqueous alcohol 50:50
Excipients	None		

Certificate of Analysis on batchwise and MSDS will accompany the consignment

Approved by:

Date: 15th Sep 2011