

Lot# 100913-02

CERTIFICATE OF ANALYSIS

Boswellia Serrata 65% EP

LATIN NAME: Boswellia serrata

COMMON NAME: Boswellia Serrata 65% EP

HARVEST SEASON: March - June**

LOT NUMBER: SBS1EP1302J06

ORIGIN: India

PLANT PART USED: Gum Resin

HARVEST METHOD: Wild Crafted

MFG. DATE: September 2013

Product code: BSA065EPPP

PHYSICAL CHARACTERISTIC	SPECIFICATION	TEST METHOD	RESULTS
Identification	Positive	TLC/HPLC	Confirms (Cofa History)
Plant Part Used	Gum Resin	Visual	Confirms
Appearance	Fine Powder	Visual	Confirms
Color	Creamish Yellow*	Visual	Confirms
Odor	Characteristic	Organoleptic	Confirms
Taste	Characteristic	Organoleptic	Confirms
Particle size	NLT 80% thru 80 mesh	USP <786>	Complies
Bulk density	NLT 0.3 g/mL	USP <616>	Complies
Tap density	NLT 0.4 g/mL	USP <616>	Complies
CHEMICAL ANALYSIS	SPECIFICATION	TEST METHOD	RESULTS
Assay for Actives			
a. Total Organic Acids	NLT 65%	Titration	70.9%
Loss on Drying	NMT 6%	USP <731>	Complies (Cofa History)
Herb Extract Ratio	5:1	In-house specification	Confirms
Moisture content	NMT 4%	USP <921>/In-house method	3%
Acid Insoluble Ash	NMT 8%	USP <281>	<5%
Solvent %	100% Alcohol	In-house specification	Confirms
Excipient	NMT 2% Silicon Dioxide	In-house specification	None
IMPURITIES	SPECIFICATION	TEST METHOD	RESULTS
Total heavy metals	< 10 ppm	USP <231>	Complies
Lead	< 1 ppm	AAS, ICP-MS	0.10 ppm (ICP-MS)
Mercury	< 2 ppm	AAS, ICP-MS	<0.1 ppm (ICP-MS)
Arsenic	< 1 ppm	AAS, ICP-MS	<0.5 ppm (ICP-MS)
Cadmium	< 1 ppm	AAS, ICP-MS	<0.25 ppm (ICP-MS)
MICROBIOLOGY	SPECIFICATION	TEST METHOD	RESULTS
Total plate count	< 5000 cfu/g	USP/BAM	<100 cfu/g (USP)
Yeast & mold	< 200 cfu/g	USP/BAM	<20 cfu/g (USP)
Escherichia coli	Absent	USP/BAM	Absent (USP)
Salmonella	Absent	USP/BAM	Absent (USP)
Coliforms	<10 cfu/g	USP/BAM	<10 cfu/g (USP)
Staph Aureus	Absent	USP/BAM	Absent (USP)
Enterobacteriaceae	< 100 cfu/g	USP/BAM	<10 cfu/g (USP)

**Harvest season is subject to change based on environmental changes.

*Color of botanical products is subject to seasonal conditions and may vary from lot to lot.

Shelf Life: 48-months from date of manufacture

Storage: At room temperature, away from sunlight and moisture

Approved by: _____

