

**BOTANICAL INFORMATION: SPECIFICATION SHEET
MULBERRY LEAF EXTRACT (>1.0% 1 – DNJ)**



BOTANICAL NAME : Morus alba linn
 PLANT PART USED : Leaves
 APPEARANCE : Greenish brown hygroscopic powder
 SOLVENT : Hydro-alcohol
 CARRIER : 2-5 % Dextrin
 PRESERVATIVES : NONE
 CERTIFICATIONS : NONE
 COUNTRY OF ORIGIN : India
 Harvest : Wild crafted
 HERB TO EXT RATIO : 8-12 : 1

BATCH NO: ASHT/MA D.O.M: January 2014 D.O.E: Feb 2016

PHYSICAL PROFILE

Particle Size	99% thru 40 Mesh
Loose Density	0.30- 0.70g/ml
Bulk Density (Tapped)	0.48 g/ml

PRODUCT PROFILE

	SPECIFICATION	RESULTS
Identification	To comply with TLC std.	Complies
Loss on Drying	<8.0%	5.4%
Residual Solvent	<5000ppm	Complies
Odor	Organoleptic	Characteristic
Flavor	Organoleptic	Characteristic
Solubility in Water	>70.0%	95%
PH (1% solution)	4-7	5.8

ASSAY

Content of 1-Deoxynojirimycin (%w/w calculated as Alkaloids by Gravimetry)	>1.0%	1.08%
Total Flavonoids (%w/w calculated by UV Spectrometry)	>15.0%	16.8%
Vitamin C Content (%w/w calculated by UV Spectrometry)	>10.0%	12%

MICROBIOLOGICAL PROFILE

Total Plate Aerobic Plate Count	<10,000CFU/g	1080 cfu/g
Yeast & Mould	<1000cfu/g	140 cfu/g
Total Coliforms	<10cfu/g	NOT DETECTED
E.Coli	Negative in 10g	NOT DETECTED
Salmonella	Negative in 10g	NOT DETECTED

SUPPLEMENTAL INFORMATION

Arsenic (ICP – MS)	< 1.0ppm	Below Detection Limit (limit 0.01)
Cadmium (ICP-MS)	< 1.0 ppm	Below Detection Limit (limit 0.01)
Lead (ICP-MS)	< 3.0 ppm	Below Detection Limit (limit 0.01)
Mercury (ICP-MS)	< 0.1 ppm	Below Detection Limit (limit 0.01)

STORAGE CONDITIONS: Store in well-closed containers at room temperature. Protect from light, moisture and pest infestation.

QUALITY INCHARGE