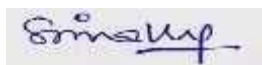


Technical Specification

Product:	Bitter Melon Extract -10% (Mamordica Extract)
Plant Part Used:	Fruit
Botanical Name:	Mamordica charantia
Country of origin:	INDIA
Shelf Life:	24 Months
Standard Packing:	25 kg

Test	Specification	Testmethod
Description /Appearance	Dark greenish brown to brown color powder	Organoleptic
Odour & Taste	Characteristic odour & bitter in taste	Organoleptic
Identification	By TLC	IH-TM
Loss on Drying	NMT 5.0% w/w	USP 37<731>
Particle size	NLT 90% w/w through 40 Mesh	USP 37<786>
Bulk Density	0.60-1.11 gm/ml	USP 37<616>
Assay Bitters by gravimetric (including charantins)	NLT 10.0% w/w	IH-TM-072
Heavy metals Lead Arsenic Cadmium Mercury	NMT 20 ppm NMT 2.0 ppm NMT 1.0 ppm NMT 0.5 ppm NMT 0.5 ppm	USP<231> ICP-OES ICP-OES ICP-OES ICP-OES
Microbiology Tests Total Aerobic Microbial Count Yeast & Mould Enterobacteria Enumeration Salmonella Escherichia coli	NMT 5000 cfu/gm NMT 200 cfu/gm NMT 100 cfu/gm Absent in 10 gram Absent in 10 gram	USP<2021> USP<2021> IS 5401-2:2012 USP<2022> USP<2022>

Prepared by



Srinath Madasu
Manager R&D

Approved by



Venkat Kondepudi,
Head of Quality Control & Production

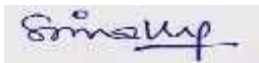


Technical Specification

Product:	Bitter Melon Extract -15% (Mamordica Extract)
Plant Part Used:	Fruit
Botanical Name:	Mamordica charantia
Country of origin:	INDIA
Shelf Life:	24 Months
Standard Packing:	25 kg

Test	Specification	Testmethod
Description /Appearance	Dark greenish brown to brown color powder	Organoleptic
Odour & Taste	Characteristic odour & bitter in taste	Organoleptic
Identification	By TLC	IH-TM
Loss on Drying	NMT 5.0% w/w	USP 37<731>
Particle size	NLT 90% w/w through 40 Mesh	USP 37<786>
Bulk Density	0.60-1.11 gm/ml	USP 37<616>
Assay Bitters by gravimetric (including charantins)	NLT 15.0% w/w	IH-TM-072
Heavy metals Lead Arsenic Cadmium Mercury	NMT 20 ppm NMT 2.0 ppm NMT 1.0 ppm NMT 0.5 ppm NMT 0.5 ppm	USP<231> ICP-OES ICP-OES ICP-OES ICP-OES
Microbiology Tests Total Aerobic Microbial Count Yeast & Mould Enterobacteria Enumeration Salmonella Escherichia coli	NMT 5000 cfu/gm NMT 200 cfu/gm NMT 100 cfu/gm Absent in 10 gram Absent in 10 gram	USP<2021> USP<2021> IS 5401-2:2012 USP<2022> USP<2022>

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