

PRODUCT SPECIFICATION

ICNL/Botanical Name	<i>NICOTIANA TABACUM</i>	Date of Expiry	03 Years
Product Name	Nicotine Bitartrate Dehydrate	Extraction Solvent	---
Report No.	NT/MON/31-22/23	Extraction Ratio	---
Parts of Plant	Leaves	Make	Indian NOM
Cas No	96055-45-7	HSN Code	29397910
TEST	SPECIFICATION	METHOD	
A. Physical Parameters:			
Appearance	White to off white powder	Visual	
Identification C by HPLC	The retention time of major peak of chromatograph of the sample solution corresponds to that in the chromatogram of standard solution, as obtained in the assay test.	USP	
Organic impurities By HPLC	As per USP Specification	USP	
Nicotine Related Compound (A,B,C,D,E,F,G)	NMT 0.3%	USP	
Any Other Unspecified Impurities	NMT 0.1%	USP	
Total Impurities By HPLC	NMT 0.8%	USP	
Loss on Drying (At 105⁰C)	NMT 8.0% w/w	USP	
B. Active Ingredients:			
Nicotine	Between 30.4% to 33.0%	HPLC	
C. Heavy Metals:			
Lead (PB)	NMT 3.0 ppm	ICP-MS	
Arsenic (AS)	NMT 1.0 ppm	ICP-MS	
Cadmium (CD)	NMT 1.0 ppm	ICP-MS	
Mercury (HG)	NMT 0.1 ppm	ICP-MS	
D. Microbiological Test:			
Total Plate Count	NMT 100cfu/g	USP 2021	
Total Yeast & Mold Count	NMT 10 cfu/g	USP 2021	
Escherichia coli	Absent	USP 2022	
Salmonella	Absent	USP 2022	
Pseudomonas aeruginosa	Absent	USP 2022	
Staphylococcus aureus	Absent	USP 2022	
E. Mycotoxin:			
Aflatoxin (B1+B2+G1+G2)	---	USP 561	
Residual Pesticides	---	USP 561	
F. Other: PLEASE CAREFULLY READ THESE INSTRUCTIONS BEFORE OPENING THIS MATERIAL.			
The material is completely required. During material handling, a full Lab PPE Kit should be used at all times.			
The material temperature should not exceed 25 °C throughout transit, processing, storage, should be kept away from sunshine & heat.			
The substance ensures that if the bottle is opened, it is ' Flushed ' and kept under a nitrogen ' Blanket ', and oxygen is evacuated from the bottle.			
To avoid oxidation and degradation, the substance should be combined in an airless (Nitrogenous Environment).			
Material mixing should take place in sealed containers.			
When exposed to air, the material may quickly Oxidize; therefore, open the sample until it is ready to be tested or used, or develop your formulation.			
The above substance meets with USP requirements.			
Standard Packing: 25 Kg or 1 kg in single Container/Customized Packing:1 kg in single Container charges applicable			
Herbal origins are used in the product. Due to seasonal and geographic variations in the plant material, there may be a slight Colour difference.			

Note: This Is Computer Generated Specification & Does Not Require A Physical Signature.

