

## PRODUCT SPECIFICATION

<b>INCI/Botanical Name</b>	<b>HAMMEMELIS VIRGINIANA</b>	<b>Product Name</b>	Witch-Hazel Extract
<b>Parts of Plant</b>	Leaf	<b>Report No</b>	HV/HP/23
<b>Extraction Ratio</b>	<b>Liquid Extract</b>	<b>Origin</b>	India
<b>Extraction Base</b>	<b>Water/Solvent</b>	<b>Date of Expiry</b>	02 Years
<b>Cas No</b>	84696-19-5	<b>HSN Code</b>	13021919
<b>TEST</b>	<b>SPECIFICATION</b>		<b>METHOD</b>

### A. Physical Parameters:

<u>Solvent Used</u>	PROPYLENE GLYCOL	GLYCERIN	DISTILLED	
<b>Appearance</b>	Liquid	Liquid	Clear liquid	Visual
<b>Color</b>	Light brown	Brown	Colorless	Visual
<b>Odour</b>	Odour of leaves	Odour of leaves	Odour of leaves	Organoleptic
<b>Miscibility</b>				
<b>Water</b>	Miscible	Miscible	Miscible	USP 516
<b>Propylene</b>	Miscible	Miscible	Miscible	USP 516
<b>Alcohol (50% Alcohol)</b>	Miscible	Miscible	Miscible	USP 516
<b>pH (1% Aqu. Sol<sup>n</sup>.)</b>	Between 4.0 to 7.0	Between 4.0 to 7.0	Between 4.0 to 7.0	USP 791
<b>Specific Gravity (At 20<sup>o</sup>C)</b>	Between 1.000 to 1.100 gm/ml	Between 1.16 to 1.23 gm/ml	Between 1.000 to 1.100 gm/ml	Pycnometer

### B. Active Ingredients:

<b>Polyphenol</b>	<b>Presence</b>	<b>Presence</b>	---	<b>USP</b>
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### C. Heavy Metals:

<b>Lead (PB)</b>	NMT 1.0 ppm	NMT 1.0 ppm	NMT 1.0 ppm	USP 233
<b>Mercury (HG)</b>	NMT 1.0 ppm	NMT 1.0 ppm	NMT 1.0 ppm	USP 233
<b>Arsenic (AS)</b>	NMT 1.0 ppm	NMT 1.0 ppm	NMT 1.0 ppm	USP 233
<b>Cadmium (CD)</b>	NMT 1.0 ppm	NMT 1.0 ppm	NMT 1.0 ppm	USP 233

### D. Microbiological Test:

<b>Total Aerobic Count</b>	NMT 1000 cfu/gm	NMT 1000 cfu/gm	NMT 1000 cfu/gm	USP 2021
<b>Total Yeast &amp; Mold Count</b>	NMT 100 cfu/gm	NMT 100 cfu/gm	NMT 100 cfu/gm	USP 2021
<b>Escherichia coli</b>	Absent	Absent	Absent	USP 2022
<b>Salmonella</b>	Absent	Absent	Absent	USP 2022
<b>S. aureus</b>	Absent	Absent	Absent	USP 2022
<b>Staphylococcus</b>	Absent	Absent	Absent	USP 2022

### E. Other:

Standard Packing: 25 Kg in single HDPE Container.  
 The above material complies with in-house specifications.  
 Store in a cool and dry place away from sunlight and heat. The preferred storage is below 30<sup>o</sup>C.  
 The Product Is of Herbal Origin. There May Be Minor Color Difference Due to Geographical and Seasonal Variation of the Plant Material.

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

