



Certificate of Analysis (Vetiver Hydrosol)

Product Name	-	Vetiver Hydrosol (Steam-distilled)
Source	-	Roots, Indian Produce
Cultivation area	-	Parts Of India
Date of Testing	-	May 2024
Batch No.	-	ASVT34
Best Before	-	Best before 2 years (When stored properly)

Analytical Details	Specification	Result	Method
Appearance	Clear transparent liquid	Confirm	Visual Inspection
Odor	Earthy & sweet aroma	Confirm	Sensory Evaluation
pH (25°C)	4.5-6.5	4.7	AOAC (pH meter)
Solubility	Soluble in water	Confirm	Visual Inspection
Specific Gravity @ 25°C	0.990 – 1.010g/ml	0.995 g/ml	AOAC (Hydrometer)
Refractive Index @ 20°C	1.335-1.345	1.336	AOAC (Refractometer)

Heavy Metals			
Arsenic (As)	<1ppm	Below detection limit	AOAC
Lead (Pb)	<2 ppm	Below detection limit	
Cadium (Cd)	<1ppm	Below detection limit	

Microbial Count			
Total Plate Count	<1000 CFU/ml	<1000 CFU/ml	Microbial Methods
Yeast & Mold	<100 CFU/ml	<100 CFU/ml	
E.coli	Absent	Not detected	





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S.aureus	Absent	Not detected	
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Compounds	Concentration Range	Result	Method
Khusinol	1-20%	5mg/l	GC-MS
Alpha-Vetivone	1-15%	8.7mg/l	GC-MS

Compatibility	No precipitation or sedimentation	No precipitation or sedimentation observed	Visual Inspection
Stability	No change in appearance, odor or pH	No change in appearance, odor or pH	Visual Inspection

Appearance: The Vetiver Hydrosol should be a clear transparent liquid with no visible impurities.

Odor: The Vetiver Hydrosol has a Earthy & sweet aroma which is characteristic of Vetiveria zizanioides.

pH: The pH of the Vetiver Hydrosol should be within the range of 4.5 - 6.5.

Solubility: The Vetiver Hydrosol is soluble in water, indicating that it can be easily formulated into various cosmetic and personal care products.

Specific Gravity: The specific gravity of the Vetiver Hydrosol is 1.010, which is within the acceptable range for hydrosols.

Refractive Index: The refractive index of the Vetiver Hydrosol is 1.345, which is within the acceptable range for hydrosols.

Heavy Metals: The Vetiver Hydrosol contains less than 0.1 ppm of heavy metals, which is within the Acceptable limit for cosmetic ingredients.

Microbial Test: The Vetiver Hydrosol conforms to the microbial limits specified, indicating that it is safe for cosmetic and personal care applications.

Khusinol: Major compound contributing to Vetiver's therapeutic properties.

Alpha-Vetivone: Contributes to the antimicrobial and aromatic properties.

Compatibility: The Vetiver Hydrosol should be tested for compatibility with potential incompatible substances, such as strong acids or bases, to ensure that no precipitation or discoloration occurs.

Stability: The Vetiver Hydrosol should be tested for stability by storing it at a specified temperature for a specified time period and comparing the test results to the initial test results.





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GMO- The product does not contain any genetically modified organisms (Non- GMO)

Storage - Should be protected from direct sunlight and should be stored in cool temperature with minimum oxidation to avoid rancidity. Store In well tightly closed container in cool and dry place away from sunlight

Packaging – Glass /Plastic Bottle

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Aadhunik Ayurveda Vitals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Aadhunik Ayurveda Vitals has been advised of the possibility of such damages.



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