

**Laboratory**                      **Quality Assessment Laboratory, Fragrance & Flavour Development Centre, Makrand Nagar, Industrial Estate, Kannauj, Uttar Pradesh**

**Accreditation Standard**      **ISO/IEC 17025: 2005**

**Discipline**                      **Chemical Testing**                      **Issue Date**      **29.02.2016**

**Certificate Number**              **T-0155**                      **Valid Until**      **28.02.2018**

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>I.</b>	<b>COSMETICS &amp; ESSENTIAL OILS</b>			
<b>1.</b>	<b>Essential Oils &amp; Natural Attars (based on Sandal Oil &amp; Mineral Oil)</b>	Specific gravity	IS 326 (Part 3): 2006	0.4999 to 1.9999
		Optical rotation	IS 326 (Part 4): 2005	(-) 150 ° to (+) 150 °
		Refractive Index	IS 326 (Part 5): 2006	1.2999 to 1.6999
		Solubility in dilute alcohol	IS 326 (Part 6): 2005	Qualitative
		Polyethylene glycol identification	IS 329: 2004	Qualitative
		Acid value	IS 326 (Part 7): 2006	1 % to 25 % (Natural)  1 % to 50 % (Adulterated)
		Ester value	IS 326 (Part 8): 2005	1 % to 50 % (Natural)  1 % to 200 % (Adulterated)
		Ester value after Acetylation	IS 326 (Part 9): 1980 (RA 2000)	1 % to 300 % (Natural)  1 % to 350 % (Adulterated)
	Identification of major/ minor component (% Purity) by Gas Liquid Chromatography	IS 326 (Part 19): 1998 (RA 2002)	Qualitative	
<b>2.</b>	<b>Aroma Chemicals/ Isolates</b>	Specific gravity	IS 326 (Part 3): 2006	0.4999 to 1.9999
		Optical rotation	IS 326 (Part 4): 2005	(-) 150 ° to (+) 150 °

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	<b>Aroma Chemicals/ Isolates</b>	Refractive Index	IS 326 (Part 5): 2006	1.2999 to 1.6999
		Solubility in dilute alcohol	IS 326 (Part 6): 2005	Qualitative
		Polyethylene glycol identification	IS 329: 2004	Qualitative
		Acid value	IS 326 (Part 7): 2006	1 % to 25 % (Natural) 1 % to 50 % (Adulterated)
		Ester value	IS 326 (Part 8): 2005	1 % to 50 % (Natural) 1 % to 200 % (Adulterated)
		Ester value after Acetylation	IS 326 (Part 9): 1980 (RA 2000)	1 % to 300 % (Natural) 1 % to 350 % (Adulterated)
		Identification of major/ minor component (% Purity) by Gas Liquid Chromatography	IS 326 (Part 19): 1998 (RA 2002)	Qualitative
<b>3.</b>	<b>Floral Water</b>	pH Value	IS 3025 (Part 11): 1983 (RA 2002)	2 to 12
<b>4.</b>	<b>Fragrance/ Flavour</b>	Specific gravity	IS 326 (Part 3): 2006	0.4999 to 1.9999
		Optical rotation	IS 326 (Part 4): 2005	(-) 150 ° to (+) 150 °
		Refractive Index	IS 326 (Part 5): 2006	1.2999 to 1.6999

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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Fragrance/ Flavour</b>	Identification of major/ minor component (% Purity) by Gas Liquid Chromatography	IS 326 (Part 19): 1998 (RA 2002)	Qualitative
5.	<b>Aromatic Plants/ Herbs (Hydrodistillate)</b>	Oil Content	QAL-QM-201: 2015 Issue No.: 06 Issue Date: 18.09.2015	0.01 % to 25 %
		Concrete absolute/ Solvent extract	QAL-QM-201: 2015 Issue No.: 06 Issue Date: 18.09.2015	0.01 % to 35 %

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