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Certificate of Analysis

Product: Peppermint Essential Oil
 Botanical name: *Mentha x piperita*
 Origin: India
 Lot number: ME PIP-1806041
 Manufacturing date: 01-MAY- 2018
 Best before 01-MAY- 2021

Parameters	Specification	Results
Colour	Colorless to pale yellow or pale greenish-yellow clear liquid	Conforms
Odour	Characteristic; Peppermint odour and taste followed by sensation of cold	Conforms
Solubility	Miscible of Alcohol & Methylene chloride	Conforms
Specific gravity (g/cm ³) at 20°C	0.900 – 0.916	0.90144
Refractive index at 20°C	1.457 to 1.467	1.4596
Optical rotation at 20°C	-18° to 35°	-29.685°
Acid Value	Neutral	Conforms
Fatty Oil and Resinified Essential Oils	It complies with the test for fatty oils and resinified essential oils	Complies
Chromatographic Profile		
Limonene	1.00% to 5.00%	1.92%
1,8 Cineole	3.50 – 14.00%	4.14%

Parameters	Specification	Results
Menthone	14.00 – 32.00%	19.30%
Menthofuran	1.00 - 9.00%	1.24%
Iso-Menthone	1.50 – 10.00%	2.80%
Menthyl Acetate	2.80 - 10.00%	4.79%
Iso-Pulegol	Max. 0.20%	0.06%
L-Menthol	30.00 – 57.00%	55.29%
Pulegone	Max. 4.00%	0.59%
Carvone	Max. 1.00%	0.20%
The ratio of 1,8 cineole content to limonene content is minimum 2		2.12:1

Storage: Keep in tightly closed container in a cool and dry place, protected from light.

This is a computer generated certificate of analysis and does not require a signature.