


CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION	COMPANY IDENTIFICATION
PRODUCT NAME : Ledum Organic - ESSENTIAL OIL BOTANICAL NAME : Ledum groenlandicum SYNONYM(S) :	COMPANY : ZAYAT AROMA INC. ADDRESS : 1339 SHEFFORD, BROMONT (QC) J2L 1C9, CANADA TELEPHONE : 1.855.534.1671 FAX : 1.855.318.6124 WEB : WWW.ZAYATAROMA.COM E-MAIL : INFO@ZAYATAROMA.COM
INCI NAME : Ledum groenlandicum (Labrador tea) oil CAS TSCA : 90063-39-1 HS CODE : 3301.29 CAS EINECS : 289-997-3 EINECS : 90063-39-1 FEMA : N/A COE : N/A COUNTRY OF ORIGIN : Canada FDA CODE : N/A PRODUCTION TYPE : Organic PRODUCTION METHOD : Steam distilled PART DISTILLED : Flowers LOT NUMBER : EAB533476 CA35515B PRODUCTION DATE : August, 2015 EXPIRATION DATE : August, 2020	<p>Certified organic by Ecocert Canada</p> 

PROPERTIES	SPECIFICATIONS	RESULTS
APPEARANCE	<i>Limpid, mobile and fluid liquid; incolor to pale yellow</i>	<i>Complies</i>
ODOR	<i>Herbal, wild, sweet and astringent</i>	<i>Complies</i>
SOLUBILITY	<i>Soluble in alcohol and oils. Insoluble in water.</i>	<i>Complies</i>
SPECIFIC GRAVITY	<i>0.885 – 0.930 @ 20 °C</i>	<i>0.920</i>
OPTICAL ROTATION	<i>-55 – -5 @ 20°C</i>	<i>Complies</i>
REFRACTIVE INDEX	<i>1.489 – 1.499 @ 20 °C</i>	<i>Complies</i>
COMPOSITION	sabinene, b-selinene, b-bisabolene, gamma terpinene, b-pinene, a-pinene	

DISCLAIMER

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COMPONENTS	% TOTAL : 94,34
<i>Tricyclène</i>	0,11
<i>alpha-Thujène</i>	0,24
<i>alpha-Pinène</i>	2,81
<i>Camphène</i>	1,17
<i>Sabinène</i>	10,24
<i>bêta-Pinène</i>	2,93
<i>Myrcène</i>	0,27
<i>alpha-Phéllandrène + p-Mentha-1,5,8-triène ?</i>	1,18
<i>alpha-Terpinène</i>	0,68
<i>p-Cymène + Menthatriène ?</i>	2,72
<i>Limonène + bêta-Phéllandrène</i>	12,9
<i>cis-bêta-Ocimène</i>	0,13
<i>trans-bêta-Ocimène</i>	0,05
<i>gamma-Terpinène</i>	1,76
<i>cis-Sabinène hydrate</i>	0,12
<i>Terpinolène + p-Cymenène</i>	0,53
<i>Linanol</i>	0,14
<i>Nonanal</i>	0,07
<i>dehydro Sabinène cétone + trans-p-mentha-2,8-dièn-1-ol</i>	2,83
<i>cis-p-mentha-2,8-dièn-1-ol</i>	1,64
<i>trans-Pinocarvéol</i>	1,52
<i>Sabina cétone</i>	0,2
<i>Pinocarvone</i>	0,64
<i>Terpinèn-4-ol</i>	1,55
<i>Thuj-3-èn-10-al</i>	1,06
<i>trans-p-mentha-1(7),8-dièn-2-ol</i>	4,41
<i>alpha-Terpinéol</i>	0,08
<i>Myrténal</i>	2,91
<i>trans-4-Caranone + Isopiperitéol A ?</i>	2,09
<i>cis-4-Caranone</i>	0,83
<i>trans-Carvéol + Isopiperitéol B ?</i>	1,41
<i>cis-p-Mentha-1(7),8-dièn-2-ol</i>	4,1
<i>cis-Carvéol</i>	0,27
<i>Cuminaldéhyde</i>	0,47
<i>Carvone</i>	0,96
<i>Perillaldéhyde + ?</i>	0,22
<i>Acétate de bornyle</i>	1,74
<i>Acétate de myrtényle</i>	0,16
<i>alpha-Copaène</i>	0,11
<i>Acétate de géranyle</i>	0,06

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<i>bêta-Elémène</i>	0,43
<i>alpha-Gurjunène</i>	0,42
<i>bêta-Caryophyllène</i>	0,32
<i>gamma-Elémène</i>	0,13
<i>alpha-Humulène</i>	1,32
<i>allo-Aromadendrène</i>	0,32
<i>Germacrène D</i>	0,47
<i>bêta-Sélinène</i>	9,14
<i>alpha-Sélinène</i>	3,32
<i>bêta-Bisabolène + ?</i>	0,85
<i>delta-Cadinène</i>	0,47
<i>Sélina-3,7(11)-diène ?</i>	0,1
<i>Germacrène B</i>	3,02
<i>Palustrol</i>	0,42
<i>Oxyde de Caryophyllène</i>	0,06
<i>bêta-Copaên-4-alpha-ol ?</i>	0,16
<i>Lédol</i>	0,23
<i>Rosifoliol + ?</i>	0,76
<i>Germacrone</i>	2,32
<i>Cyclocolorénone</i>	1,89
<i>Eudesma-3,7-dien-2-one</i>	0,88

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