

CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION		COMPANY IDENTIFICATION	
PRODUCT NAME:	White Spruce	COMPANY:	ZAYAT AROMA INC.
BOTANICAL NAME:	Picea glauca	ADDRESS:	1339 SHEFFORD, BROMONT (QC) J2L 1C9, CANADA
SYNONYM(S):		TELEPHONE:	1.855.534.1671
		FAX:	1.855.318.6124
		WEB:	WWW.ZAYATAROMA.COM
		E-MAIL:	INFO@ZAYATAROMA.COM
INCI NAME:	Picea canadensis leaf oil		
CAS TSCA:	8008-80-8	HS CODE:	3301.29
CAS EINECS:	N/A	EINECS:	294-419-8
FEMA:	N/A	COE:	N/A
COUNTRY OF ORIGIN:	Canada	FDA CODE:	N/A
PRODUCTION TYPE:	Organic		
PRODUCTION METHOD:	Distillation complète à la vapeur d'eau		
PART DISTILLED:	Needles & Twigs		
LOT NUMBER:	EAB742454CA92214A		
PRODUCTION DATE:	March 2014		
EXPIRATION DATE:	March 2019		

PROPERTIES	SPECIFICATIONS	RESULTS
APPEARANCE	<i>Colorless to pale yellow liquid</i>	<i>Complies</i>
ODOR	<i>Characteristic odor</i>	<i>Complies</i>
SOLUBILITY	<i>Soluble in alcohol and oils. Insoluble in water.</i>	<i>Complies</i>
SPECIFIC GRAVITY:	<i>0.870 ? 0.925 @ 20°C</i>	<i>0.905</i>
OPTICAL ROTATION:	<i>-25.0 ? -15.0 @ 20°C</i>	
REFRACTIVE INDEX:	<i>1.460 ? 1.480 @ 20°C</i>	<i>N/A</i>
PEROXYDE VALUE:	<i><= 15 mEq O2/KG</i>	<i>N/A</i>

DISCLAIMER

The information above is given in good faith and 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 ZAYAT AROMA INC. 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 ZAYAT AROMA INC. has been advised of the possibility of such damages. This data is not to be constructed as absolutely complete since additional data may be desirable when particular conditions or circumstances exist. This data relates only to the specific material designated and not to be used in combination with any other material. Many regulations pertain directly or indirectly to the product's end use and disposal of containers and unused material. It is the purchaser's responsibility to familiarize themselves with all applicable regulations.

White Spruce
Picea glauca

LOT: CA92214A

CERTIFICATE OF ANALYSIS

COMPONENTS	% TOTAL: 97.43
<i>santène</i>	0.20
<i>tricyclène</i>	0.68
<i>a-thujène</i>	0.05
<i>a-pinène</i>	12.02
<i>camphène</i>	10.34
<i>sabinène</i>	0.11
<i>?-pinène</i>	14.59
<i>myrcène</i>	4.82
<i>a-phellandrène</i>	0.31
<i>d-3-carène</i>	2.51
<i>a-terpinène</i>	0.16
<i>para-cymène</i>	0.21
<i>limonène</i>	12.35
<i>?-phellandrène</i>	0.00
<i>g-terpinène</i>	0.25
<i>terpinolène</i>	0.93
<i>linalol</i>	0.16
<i>camphre</i>	13.74
<i>hydrate de camphène</i>	0.65
<i>bornéol</i>	2.20
<i>terpin-1-én-4-ol</i>	0.43
<i>a-terpinéol</i>	1.15
<i>citronellol</i>	0.59
<i>pipéritone</i>	1.15
<i>acétate de bornyle</i>	14.91
<i>longifolène</i>	0.19
<i>b-caryophyllène</i>	0.22
<i>a-humulène</i>	0.22
<i>trans-cadina-1(6),4 diène?</i>	0.10
<i>germacrène D</i>	0.09
<i>b-sélinène?</i>	0.10
<i>bicyclogermacrène</i>	0.08
<i>a-muuroolène</i>	0.22
<i>g-cadinène</i>	0.31
<i>d-cadinène</i>	0.82
<i>tau-cadinol</i>	0.30
<i>tau-muurolol</i>	0.00
<i>a-cadinol</i>	0.27

CERTIFICATE OF ANALYSIS