

CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION		COMPANY IDENTIFICATION	
PRODUCT NAME:	Scots Pine	COMPANY:	ZAYAT AROMA INC.
BOTANICAL NAME:	Pinus sylvestris	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:	Pinus sylvestris leaf oil		
CAS TSCA:	8023-99-2	HS CODE:	3301.29
CAS EINECS:	84012-35-1	EINECS:	294-351-9
FEMA:	2906	COE:	541n
COUNTRY OF ORIGIN:	Hungary	FDA CODE:	172.51
PRODUCTION TYPE:	Conventional		
PRODUCTION METHOD:	Distillation complète à la vapeur d'eau		
PART DISTILLED:	Needles & Twigs		
LOT NUMBER:	EAC746796HU35618E		
PRODUCTION DATE:	April 2018		
EXPIRATION DATE:	April 2020		

PROPERTIES	SPECIFICATIONS	RESULTS
APPEARANCE	<i>Colorless to pale yellow liquid</i>	<i>Complies</i>
ODOR	<i>Characteristic pine odor</i>	<i>Complies</i>
SOLUBILITY	<i>Soluble in alcohol and oils. Insoluble in water.</i>	<i>Complies</i>
SPECIFIC GRAVITY:	<i>0.857 - 0.885 @ 20°C</i>	<i>0.864</i>
OPTICAL ROTATION:	<i>-4.0 - +10 @ 20°C</i>	<i>+4.7Å°</i>
REFRACTIVE INDEX:	<i>1.465 - 1.479 @ 20°C</i>	<i>1.47</i>
PEROXYDE VALUE:	<i><= 15 mEq O2/KG</i>	<i>Complies</i>

DISCLAIMER

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Scots Pine
Pinus sylvestris

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COMPONENTS	% TOTAL: 99.94
ACETONE	0.03
ETHANOL	0.17
SANTENE	0.38
TRICYCLENE	0.41
alpha -PINENE	32.28
alpha -THUYENE	0.05
alpha -FENCHENE	0.34
CAMPHENE	5.22
COMPOSÉ Mw=138	0.03
beta -PINENE	15.21
SABINENE	0.05
PINADIENE	0.02
delta2 -CARENE	0.03
TERPENE ISOMER	0.04
p -MENTH - 2 -ENE	0.04
delta 3 -CARENE	15.98
beta -MYRCENE	2.69
alpha -PHELLANDRENE	0.08
psi -LIMONENE	0.19
o -CYMENE	0.05
alpha -TERPINENE	0.11
LIMONENE	16.30
beta -PHELLANDRENE	0.63
MENTHATRIENE ISOMER	0.02
2 -HEXENAL	0.02
Cis -beta -OCIMENE	0.01
gamma -TERPINENE	0.55
Trans -beta -OCIMENE	0.02
m -CYMENE	0.02
p -CYMENE	1.54
TERPINOLENE	2.23
TERPENE ISOMER	0.02
CYMENE ISOMER	0.01
PINOL	0.01
alpha -PINENE OXIDE	0.08
2 -DECANONE	0.02
FENCHONE	0.02
alpha,p -DIMETHYLSTYRENE	0.03
EPOXY -4,8 -TERPINOLENE	0.03
alpha -COPAENE	0.02
CAMPHOR	0.04
SESQUITERPENE	0.02
LONGIFOLENE	0.03
BORNYL ACETATE	3.68
FENCHOL	0.03
METHYL THYMOL ETHER	0.01
beta -CARYOPHYLLENE	0.25
TERPINENE - 4 -OL	0.04
MYRTENAL	0.01
Trans -PINOCARVEOL	0.02
ESTRAGOL	0.01
alpha -HUMULENE	0.12
VERBENOL	0.05
BORNEOL + alpha -TERPINEOL	0.36
TERPENIC ACETATE	0.01
ALIPHATIC ESTER	0.04
alpha -MUUROLENE	0.04
beta -BISABOLENE	0.04

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<i>delta</i> -CADINENE	0.01
GERANYL ACETATE	0.02
MYRTENOL	0.02
<i>p</i> -CYMENE - 8 -OL	0.03
ISOCARYOPHYLLENE EPOXIDE	0.02
CARYOPHYLLENE EPOXIDE	0.03
SESQUITERPENOL	0.01
SESQUITERPENOL	0.02