

CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION		COMPANY IDENTIFICATION	
PRODUCT NAME:	Jack Pine	COMPANY:	ZAYAT AROMA INC.
BOTANICAL NAME:	Pinus banksiana	ADDRESS:	1339 SHEFFORD, BROMONT (QC) J2L 1C9, CANADA
SYNONYM(S):		TELEPHONE:	1.855.534.1671
		FAX:	1.855.553.6010
		WEB:	WWW.ZAYATAROMA.COM
		E-MAIL:	INFO@ZAYATAROMA.COM
INCI NAME:	Pinus banksiana Oil		
CAS TSCA:	8002-09-3	HS CODE:	3301.29
CAS EINECS:	N/A	EINECS:	N/A
FEMA:	N/A	COE:	N/A
COUNTRY OF ORIGIN:	Canada	FDA CODE:	N/A
PRODUCTION TYPE:	Organic		
PRODUCTION METHOD:	Steam distilled		
PART DISTILLED:	Needles & Twigs		
LOT NUMBER:	EAB746226CA63720A		
PRODUCTION DATE:	04/2020		
EXPIRATION DATE:	04/2022		

PROPERTIES	SPECIFICATIONS	RESULTS
APPEARANCE	<i>transparent liquid</i>	<i>Complies</i>
ODOR	<i>typical pine smell, slightly peppery</i>	<i>Complies</i>
SOLUBILITY	<i>Soluble in alcohol and oils. Insoluble in water.</i>	<i>Complies</i>
SPECIFIC GRAVITY:	<i>0.835 – 0.915 @ 20°C</i>	<i>0.840</i>
OPTICAL ROTATION:	<i>N/A</i>	<i>NA</i>
REFRACTIVE INDEX:	<i>N/A</i>	<i>NA</i>
PEROXYDE VALUE:	<i><= 15 mEq O2/KG</i>	<i>Complies</i>

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Jack Pine
Pinus banksiana

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% TOTAL: 98.09	COMPONENTS
0.03	Acétone
0.07	Heptane
0.09	Toluène
0.02	Hexanal
0.01	Octane
0.01	Inconnu
0.02	(2E)-Hexéнал
0.04	(3Z)-Hexéanol
0.01	Hexanol
0.02	Santène
0.10	Styrène
0.01	Hashishène
0.67	Tricyclène
0.08	Alpha-thujène
44.31	Alpha-pinène
2.63	Camphène
0.20	Thuja-2,4(10)-diène
0.01	Benzaldéhyde
0.13	Méta-cymène
13.07	Beta-pinène
0.05	Déhydro-1,8-cinéole
5.25	Myrcène
0.13	Alpha-phellandrène
9.03	Delta3-carène
0.15	Alpha-terpinène
0.31	Ortho-cymène
6.46	1,8 cinéole
0.02	Analogue de cymène
0.07	(Z)- Beta-Ocimène
0.01	(E)-Beta-Ocimène
0.26	Gamma-terpinène
0.02	Inconnu
0.03	Fenchone
0.04	Méta-cyménène
0.04	Isoterpinolène
1.31	Para-cyménène
0.03	2-Nonanone
0.01	Alpha-thujone
0.07	Linalol
0.02	Nonanal
0.01	Para-mentha-1,3,8-triène
0.08	Endo-fenchol
0.02	Cis-para-menth-2-én-1-ol
0.10	Alpha-campholéнал
0.01	Nopinone
0.22	Camphre
0.21	Trans-pinocarvéol
0.07	Hydrate de camphène
0.04	Méta-mentha-4,6-dién-8-ol
0.07	Pinocamphone
0.07	Pinocarvone
0.22	Bornéol
0.09	Alpha-phellandrén-8-ol
0.08	Isopinocamphone
0.25	Terpinén-4-ol
0.01	Méta-cymén-8-ol
0.04	Para-cymén-8-ol
0.04	Inconnu

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0.74	Alpha-terpineol
0.10	Myrténal
0.11	Méthylchavicol
0.01	Époxyde d'alpha-phellandrène
0.10	Verbénone
0.01	Inconnu
0.11	Éther méthylique de thymol
0.01	Éther méthylique de carvacrol
0.02	Pipéritone
0.02	Acétate de trans-verbényle
6.31	Acétate de bornyle
0.10	2-Undécanone
0.22	Acétate de trans-pinocarvyle
0.31	Acétate de myrtényle
0.05	Analogue d'acétate de terpinyle
0.02	Alpha-cubébène
0.03	Acétate de géranyle
0.14	Longifolène
0.01	Méthyleugénol
0.08	Beta-caryophyllène
0.02	Beta-copaène
0.06	Trans-alpha-bergamotène
0.04	6,9-guaiadiène
0.02	Alpha-humulène
0.03	Trans-cadina-1(6),4-diene
0.13	Gamma-muuroène
0.65	Germacrène D
0.05	Beta-sélinène
0.03	Gamma-amorphène
0.28	Bicyclogermacrène
0.13	(Z)-alpha-bisabolène
0.20	Gamma-cadinène
0.48	Trans-calaménène
0.02	Trans-cadina-1,4-diène
0.01	Alpha-cadinène
0.03	Alpha-calacorène
0.02	(E)-alpha-bisabolène
0.05	(E)-nérolidol
0.06	Spathuléol
0.02	1-Épi-cubéol
0.11	Tau-muuroolol
0.02	Alpha-muuroolol
0.10	Cis-calaménén-10-ol
0.01	Trans-calaménén-10-ol
0.01	Benzoate de benzyle
0.05	Inconnu
0.08	Oxyde de manoyle
0.08	18-Norabiéta-8,11,13-triène
0.22	Acétate d'alpha-terpinyle
0.02	Alpha-ylangène
0.03	Alpha-copaène
0.05	Beta-bourbonène
0.01	Beta-cubénène