

CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION		COMPANY IDENTIFICATION	
PRODUCT NAME: BOTANICAL NAME: Copaifera officinalis SYNONYM(S): INCI NAME: Copaifera officinalis balsam oil CAS TSCA: 8001-61-4 HS CODE: 3301.29 CAS EINECS: N/A EINECS: 232-288-0 FEMA: N/A COE: N/A COUNTRY OF ORIGIN: Brazil FDA CODE: N/A PRODUCTION TYPE: Conventional PRODUCTION METHOD: Distillation complète à la vapeur d'eau PART DISTILLED: Oleoresin LOT NUMBER: EAC267633BR43115C PRODUCTION DATE: March 2013 EXPIRATION DATE: March 2018	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		

PROPERTIES	SPECIFICATIONS	RESULTS
APPEARANCE	<i>Yellow to brown viscous liquid that becomes thicker and darker when exposed to air</i>	<i>Complies</i>
ODOR	<i>Characteristic balsamic somewhat warm honey-like odor</i>	<i>Complies</i>
SOLUBILITY	<i>Soluble in alcohol and oils. Insoluble in water.</i>	<i>Complies</i>
SPECIFIC GRAVITY:	<i>0.936 - 0.936 @ 25°C</i>	<i>0.936</i>
OPTICAL ROTATION:	<i>N/A</i>	
REFRACTIVE INDEX:	<i>1.506 - 1.520 @ 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.

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COMPONENTS	% TOTAL: 99.35
<i>p</i> -MENTH-2-ENE	0.03
<i>Cis</i> -B-OCIMENE	0.11
<i>Trans</i> -B-OCIMENE	0.01
ALLO-OCIMENE ISOMER	0.02
SESQUITERPENE	0.02
SESQUITERPENE	0.01
α -CUBEBENE	0.74
SESQUITERPENE	0.03
α -ELEMENE	0.97
YLANGENE + ELEMENE ISOMER	0.19
α -COPAENE	6.73
SESQUITERPENE	0.04
CYPERENE	0.47
B1-CUBEBENE	0.97
FARNESANE Mw=206 + α - <i>cis</i> -BERGAMOTENE	0.27
<i>E</i> -CADINENE	0.43
α - <i>trans</i> -BERGAMOTENE + <i>B</i> -ELEMENE	14.56
<i>B</i> -CARYOPHYLLENE	30.41
6,9-GUAIADIENE	0.15
AROMADENDRENE	0.03
<i>Epi</i> - <i>B</i> -SANTALENE	0.08
SESQUITERPENE	0.09
GERMACRENE A + FARNESENE ISOMER	0.17
ALLO-AROMADENDRENE + SESQUITERPENE	0.91
FARNESENE ISOMER	0.07
<i>E</i> - <i>B</i> -FARNESENE + ZONARENE	0.33
GURJUNENE ISOMER	0.08
α -HUMULENE	5.39
γ -SELINENE	0.11
<i>Z</i> - <i>B</i> -FARNESENE	0.38
γ -CURCUMENE	0.90
γ -MUUROLENE	1.86
CALARENE	0.27
SESQUITERPENE	0.16
GERMACRENE D	13.77
MUUROLENE ISOMER	0.60
<i>B</i> -BISABOLENE	0.51
<i>Epi</i> -BICYCLOSESQUIPELLANDRENE	0.14
SESQUITERPENE	0.37
<i>B</i> -SELINENE	0.81
α -MUUROLENE	1.43
α -SELINENE	0.31
BICYCLOGERMACRENE	1.05
<i>B</i> -CURCUMENE	0.15
FARNESENE ISOMER	0.03
α -CADINENE	5.24
γ -CADINENE	0.29
<i>B</i> -SESQUIPELLANDRENE + <i>Cis</i> - α -BISABOLENE	0.25
CADINA-1,4-DIENE	0.02
α -CURCUMENE	0.14
α -AMORPHENE	0.20
CALAMENENE	0.14
GERMACRENE B	0.06
OXYGENED COMPONENT Mw=208	0.03
<i>EPI</i> -CUBEBOL	0.04
CALACORENE ISOMER	0.01
α -CALACORENE	0.11
PALUSTROL	0.03

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CUBENOL	0.04
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B-CALACORENE	0.03
SESQUITERPENIC EPOXIDE	0.08
EUDESMOL ISOMER	0.10
SESQUITERPENOL	0.15
LEDOL + SESQUITERPENOL Mw=222	0.09
EPOXY-6,7-HUMULENE	0.03
CARYOPHYLLENOL	0.16
EPI-CUBENOL	0.05
SESQUITERPENOL	1.36
CUBENOL	0.19
GLOBULOL	0.15
VIRIDIFLOROL	0.16
ROSIFOLIOL	0.04
EUDESMA-5-EN-11-a-OL	0.08
SESQUITERPENOL Mw=222	0.03
DIHYDROISOCARYOPHYLLENE Mw=206	0.11
SESQUITERPENOL	0.17
CYCLOUNDECADIENOL TETRAMETHYL ISOMER	0.11
B-BISABOLOL	0.07
SESQUITERPENOL	0.08
T-CADINOL	0.31
SESQUITERPENOL	0.05
α -MUUROLOL	0.75
SESQUITERPENOL	0.04
<i>o</i> -CADINOL + SESQUITERPENOL	0.67
Epi- α -BISABOLOL	0.03
α -BISABOLOL	0.02
α -CADINOL	1.03
SESQUITERPENOL Mw=222	0.04
SESQUITERPENOL	0.06
SESQUITERPENOL	0.06
KAUR-16-ENE	0.02
DITERPENIC AROMATIC COMPONENT Mw=262	0.10
DITERPENIC AROMATIC COMPONENT	0.03
OXYGENED COMPONENT Mw=286	0.06
MANOYL OXIDE	0.04