



## CERTIFICATE OF ANALYSIS

### PRODUCT IDENTIFICATION

PRODUCT NAME: Black Pepper - ESSENTIAL OIL  
BOTANICAL NAME: Piper nigrum  
SYNONYM(S): N/A

INCI NAME: N/A  
CAS TSCA: 8006-82-4  
CAS EINECS: N/A  
FEMA: N/A  
COUNTRY OF ORIGIN: Sri Lanka  
PRODUCTION TYPE: Conventional Organic  
PRODUCTION METHOD: Steam distilled  
PART DISTILLED: Fruits  
LOT NUMBER: EAB747646LK43315A  
PRODUCTION DATE: March 2017  
EXPIRATION DATE: March 2019

### COMPANY IDENTIFICATION

COMPANY: ZAYAT AROMA INC.  
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WEB: WWW.ZAYATAROMA.COM  
E-MAIL: INFO@ZAYATAROMA.COM

HS CODE: 3301.29  
EINECS: N/A  
COE: N/A  
FDA CODE: N/A

PROPERTIES	SPECIFICATIONS	RESULTS
APPEARANCE	<i>The Oil is Colorless to very Pale Bluish Green.</i>	<i>Complies</i>
ODOR	<i>The Odor is fresh, typical for Black Pepper Oil</i>	<i>Complies</i>
SOLUBILITY	<i>Soluble in alcohol and oils. Insoluble in water.</i>	<i>Complies</i>
SPECIFIC GRAVITY:	<i>0.8600 - 0.9070 @ 30.0°C</i>	<i>0.873</i>
OPTICAL ROTATION:	<i>-15°00 - 4°00 @ 27.0°C</i>	<i>-9°10</i>
REFRACTIVE INDEX:	<i>N/A</i>	<i>N/A</i>

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Piper nigrum

LOT: EAB747646LK43315A

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COMPONENTS	% TOTAL: 74.79
<i>a-Pinene</i>	11.49
<i>b-Pinene</i>	10.98
<i>Sabinene</i>	9.68
<i>a-Phellandrene</i>	4.90
<i>Limonene</i>	15.44
<i>b-Caryophyllene</i>	22.30

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