

Certificate of Analysis		
Product Name:	Black Pepper Organic	
Latin Binomial/INCI:	<i>Piper nigrum</i>	
Cultivation:	100% Organic, Fair Trade	
Product Code/Lot Number:	4571-KAAK	
Material:	Pod	
Country of Origin:	Sri Lanka	
Date of Production:	November 11, 2021	
Expiration Date:	November 11, 2024	
Ingredient Deck: 100% Black Pepper Essential Oil		
Specification	Expected	Result
Color:	Colorless to pale yellow	PASSED
Odor:	Sharp, spicy, peppery aroma	PASSED
Appearance:	Transparent liquid	PASSED
Specific Gravity 20°C:	0.850 – 0.890	0.859
Refractive Index 20°C:	1.4550 – 1.4950	1.4801
High Resolution Capillary Gas Chromatography using Agilent 6890, 30 meter DB-5 Capillary Column	D-Limonene	18.03%
	Beta Caryophyllene	17.65%
	Sabinene	15.08%
	Alpha Pinene	14.00%
	Beta Pinene	12.58%
GRAS	LISTED	PASSED
No GMO Materials Used:	NONE	PASSED
No Sewage Sludge:	NONE	PASSED
No Ionizing Radiation:	NONE	PASSED
<p style="text-align: center;"><b>STORE IN TIGHT CONTAINERS IN A COOL PLACE (60 TO 78°F), PROTECTED FROM LIGHT.</b></p> <p><b>Disclaimer:</b> This information relates only to the specific materials mentioned and may not be valid in combination with other materials or processes. To the best of our knowledge this information is complete, accurate and reliable. However, no warranty or guarantee is implied. We assume no responsibility for any loss, damage or expense arising out of use. It is the user's responsibility to decide suitability for use.</p>		