

Certificate of Analysis

Organic Black Pepper Powder

(POP-011)

Piper nigrum

Product: Organic* Black Pepper Powder
Botanical Name: *Piper nigrum*
Form/Plant Part: Certified Organic powder from fruit
Lot number: POP-011/2004/P-10
Manufacture Date: 04/2020
Expiration Date: 04/2023
Other Information: *Organic Certified



Recognized by the USDA NOP. CofA updated: 9/29/20
This product not treated by Irradiation or ETO

Analysis	Specification	Result	Test Method
Identification	FTIR/TLC/Microscopic	Pass	FTIR/Microscopy
Appearance	Dark yellow-grey	Pass	Organoleptic
Aroma	Characteristic	Pass	Organoleptic
Particle Size	>90% at 40-mesh	97.9% at 60-mesh	USP<786>
Loss on Drying	≤8.0%	6.10%	USP<731>
Ash Content	<8%	2.29%	USP<561>
Density	0.35 - 0.75 g/ml	0.50 g/ml	USP<616>
Country of Origin	Various	Indonesia	Origin Report
Heavy Metals	<10ppm Total	<1ppm Total	ICP-MS/AOAC/USP
	As: <2ppm	ND (<0.010ppm)	ICP-MS/AOAC/USP
	Cd: <1ppm	0.020ppm	ICP-MS/AOAC/USP
	Hg: <1ppm	ND (<0.010ppm)	ICP-MS/AOAC/USP
	Pb: <3ppm	0.043ppm	ICP-MS/AOAC/USP
Excipients/Carriers	None	Pass	Production Report
Endangered Spp.	Negative	Pass	Origin Report
GMO State	Non-GMO	Pass	Origin Report
Extraneous Metal	Negative	Pass	Magnetic Screen
Total Plate Count	<1,000,000 cfu/g	40,000 cfu/g	(AOAC 990.12)
Yeast	<10,000 cfu/g	<1000 cfu/g	(AOAC 997.02)
Mold	<10,000 cfu/g	<1000 cfu/g	(AOAC 997.02)
Enterobacteriaceae	<1000 cfu/g	<100 cfu/g	(AOAC 2003.01)
Coliform	<100 cfu/g	<100 cfu/g	(AOAC 991.14)
E. Coli	Negative/10g	Negative/10g	(AOAC 991.14)
Salmonella	Negative/25g	Negative/25g	(AOAC 998.08)
Sterilization	Dry or Steam Heat	Steam (Whole Fruit)	Production Report

QC Director:

6/22/2020

NOTE: Very hygroscopic; keep inside packaging tightly closed when not in use.

CAUTION: Avoid breathing dust. Avoid contact with eyes and skin. Wash thoroughly after handling product.

MANUFACTURING USE ONLY: Store in a cool, dry place. Keep packaging tightly closed when not in use. Analytical results derived from in-house testing, independent analysis, and/or manufacturer provided data. Final product suitability is at the sole discretion of the buyer.

Doc: COA-005

Rev: 2.0

Date: 3/25/18