

CERTIFICATE OF ANALYSIS

Product: Organic Black Pepper Powder			Report No.: BMIRO201788	
			Date : 24.11.2020	
			Spec No : FPS/B01/0149-00	
Botanical Name	Part used	Country of Origin	Batch quantity	Page No
<i>Piper nigrum</i>	Fruits	India	800 kg	01/02

Batch Number	PATBPK20	Date of manufacture	Nov-2020
		Date of expiry	Oct- 2023

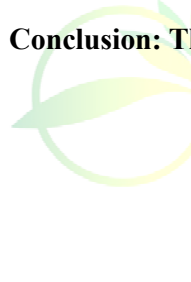
Parameter	Specification	Results	Protocol #
Physical			
Description	Gray color* powder with characteristic odor and taste	Complies	Organoleptic
Identification	To comply by HPLC	Complies	TM/0149
Solubility	Insoluble in water	Complies	USP
Loss on drying	Not more than 10.0%w/w	4.81%w/w	USP <731>
Untapped bulk density	Between 0.30 to 0.50g/ml	0.47g/ml	USP <616>
Tapped bulk density	Between 0.40 to 0.80g/ml	0.60g/ml	USP <616>
Particle size			
40 mesh	Not less than 100% passing	Complies	USP <786>
Assay			
Content of Piperine by HPLC	Not less than 5.0% w/w	5.19%w/w	TM/0149
Heavy Metals			
ICP-OES			
Lead	Not more than 3.0ppm	Complies	USP <233>
Arsenic	Not more than 1.0ppm	Complies	USP <233>
Cadmium	Not more than 0.5ppm	Complies	USP <233>
Mercury	Not more than 0.1ppm	Complies	USP <233>
Microbiological			
Total plate count	Not more than 50000cfu/g	40000cfu/g	USP <2021>
Total yeast and mold count	Not more than 1000cfu/g	300cfu/g	USP <2021>
Escherichia coli	Negative / 10g	Negative	USP <2022>
Salmonella spp.	Negative / 10g	Negative	USP <2022>
Coliforms	Negative / 10g	Negative	USP <2021>
Staphylococcus aureus	Negative / 10g	Negative	USP <2022>
Pseudomonas aeruginosa	Negative / 10g	Negative	USP <62>

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Additional information	
Sanitizing treatment	Non-irradiated and not treated with ETO
Genetic Modification Status	GMO free
BSE / TSE status	BSE / TSE free
Manufactured by	Bio-Med Ingredients Ltd
Shelf life	3 years when stored in unopened original package at the recommended storage condition.
Packing	Packed in food grade polythene bag followed by 50 L HDPE Container.
Standard Pack size	25 kg in single HDPE/ Paper Container
Storage Condition	Store in dry, cool place, protected from light, heat and oxidation. The recommended storage temperature is below 30° C.

* The product is of herbal origin. There may be minor color difference because of the geographical and seasonal variations of the plant material.

Conclusion: This Product complies with the specifications based on the above tests conducted.



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