

## TEST REPORT

**Issued to: Amal Farm Solutions Pvt. Ltd.**

Shrachi Ek Tower, Office 6C, Unit-6,  
 Action Area-II D, Newtown Rajarhat,  
 New Town, North Twenty Four Parganas,  
 West Bengal- 700161

J.O. No.: FL/FA/11102024-146  
 ULR Code: TC5503 24 0 00082185 F  
 Report Date: 16/10/2024  
 Sample Receipt Date: 11/10/2024  
 Account Manager: BD Team 1  
 Credit Manager: Gulab/Septesh

**Customer Provided Information: #**

Nature/Name of the Sample

: **Black Pepper**

**Laboratory Provided Information:**

Sample Quantity

: 1x521g, Sealed Polypack

Date of Performance of Test

: 11<sup>th</sup> – 16<sup>th</sup> Oct, 2024

Method of Sampling

: The Sample is provided by Amal  
 Farm Solutions Pvt. Ltd., through Courier.



TC-5503

## Analysis Report

**FSSR, Clause No.:**2.9.15

S. No.	Parameter	Test Result	FSSR, 2011	Protocol
<b>Chemical Analysis:</b>				
1	Moisture, % by wt.	8.0	NMT 13	IS-1797
2	Total Ash (ODB), % by wt.	4.80	NMT 7	IS-1797
3	Acid Insoluble ash (ODB), % by wt.	0.32	NMT 1.5	IS-1797
4	Volatile Oil (ODB), % by wt.	1.26	NLT 1	IS-1797
5	Non Volatile ether extract (ODB), % by wt.	7.22	NLT 6	IS-1797
6	Piperine Content (ODB),	2.40	NLT 2	FL/SOP/01-37
7	Bulk Density, g/ Lit.	4.79	NLT 400	FL/SOP/FC-84
8	Light Berries, % by wt.	0.90	NMT 10	IS-1797
9	Foreign matter, % by wt.	ND, [DL-0.05]	NMT 0.5	IS-1797
10	Black berries/corns, % by wt.	0.24	Not Applicable	IS-1798
11	Broken berries, % by wt.	0.31	Not Applicable	IS-1798
12	Mouldy Berries, % by wt.	0.18	NMT 3	IS-1798
13	Mammalian or/and other excreta, mg/kg	ND, [DL-1]	NMT 2	IS-1798
14	Pinheads for black pepper, % by wt.	ND, [DL-0.1]	NMT 4	IS-1798
15	Insect defiled berries /Corns, % by wt.	ND, [DL-0.5]	NMT 2	IS-1798
16	Sulfite as sulfur dioxide, mg/kg	ND, [DL-10]	NMT 150	FL/SOP/FC-180
17	Extraneous veg. mater, % by wt.	ND, [DL-0.1]	NMT 2	IS-3579
18	Polysorbate	ND, [DL-5]	NMT 2000	FL/SOP/01-119

**ND**=Not Detected; **DL**=Detection Limit; **NLT**=Not Less Than; **NMT**=Not More Than

*Reviewed By*

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*Authorised Signatory*  
 Mr. Piyush Jai Mallick, Scientist C

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<b>Synthetic Colors:</b>				
1	Ponceau 4R, mg/kg	ND, [DL-1]	Not Specified	FL/SOP/01-69
2	Carmoisine, mg/kg	ND, [DL-1]	Not Specified	FL/SOP/01-69
3	Erythrosine, mg/kg	ND, [DL-1]	Not Specified	FL/SOP/01-69
4	Tartrazine, mg/kg	ND, [DL-1]	Not Specified	FL/SOP/01-69
5	Sunset Yellow FCF, mg/kg	ND, [DL-1]	Not Specified	FL/SOP/01-69
6	Indigo Carmine, mg/kg	ND, [DL-1]	Not Specified	FL/SOP/01-69
7	Brilliant Blue FCF, mg/kg	ND, [DL-1]	Not Specified	FL/SOP/01-69
8	Fast Green FCF, mg/kg	ND, [DL-1]	Not Specified	FL/SOP/01-69

ND=Not Detected; DL=Detection Limit

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Authorised Signatory  
 Dr. Sammaiah Scientist-C

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S. No.	Parameter	Test Result	FSSR, 2011	Protocol
<b>Heavy Metals:</b>				
1	Lead, mg/kg	BLQ, [LOQ-0.1]	NMT 10.0	FL/SOP/12-17
2	Copper, mg/kg	7.37	NMT 30	FL/SOP/12-17
3	Arsenic, mg/kg	BLQ, [LOQ-0.1]	NMT 5.0	FL/SOP/12-17
4	Tin, mg/kg	BLQ, [LOQ-0.2]	NMT 250	FL/SOP/12-17
5	Cadmium, mg/kg	BLQ, [LOQ-0.1]	NMT 1.5	FL/SOP/12-17
6	Mercury, mg/kg	BLQ, [LOQ-0.1]	NMT 1.0	FL/SOP/12-17
7	Methyl Mercury Calculated as element, mg/kg	BLQ, [LOQ-0.11]	NMT 0.25	FL/SOP/12-17

**NMT**=Not More Than; **LOQ**=Limit of Quantification; **BLQ**=Below Limit of Quantification

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**Authorised Signatory**  
 Mr. Mithilesh Kumar, Scientist-B

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Sample Quantity

Date of Performance of Test

Method of Sampling

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: 11<sup>th</sup> – 16<sup>th</sup> Oct, 2024

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S. No.	Parameter	Test Result	FSSR, 2011	Protocol
<b>Other contaminant , mg/kg</b>				
1	Melamine	BLQ, [LOQ-0.25]	NMT 2.5	FL/SOP/04-02
<b>Mycotoxins(µg/kg)</b>				
1	Total Aflatoxins	BLQ, [LOQ-4]	NMT 30	FL/SOP/04-01
2	Aflatoxin B1	BLQ, [LOQ-1]	NMT 15	FL/SOP/04-01

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<b>Pesticide Residues, mg/kg:</b>				
1	Copper Oxychloride as copper	7.37	NMT 30	FL/SOP/12-17
2	Mancozeb as CS2	BLQ, [LOQ-0.01]	NMT 2	FL/SOP/05-04
3	Metaxyl-M	BLQ, [LOQ-0.01]	NMT 0.5	FL/SOP/03-01
<b>Banned Pesticides, mg/kg</b>				
1	Aldicarb	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/03-01
2	Aldrin	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
3	Dieldrin	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
4	Chlordane	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
5	Heptachlor	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
6	Lindane (Gamma-HCH)	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
7	Endosulfan	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
8	Carbofuran	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/03-01
9	Methomyl	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/03-01
10	Phosphamidon	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/03-01
11	Captafol	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
12	Formothion	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
13	Simazine	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/03-01
14	Diazinon	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
15	2,4-DDD	BLQ, [LOQ-0.01]	NMT 0.05	FL/SOP/05-01
16	4,4-DDD	BLQ, [LOQ-0.01]	NMT 0.05	FL/SOP/05-01
17	2,4-DDE	BLQ, [LOQ-0.01]	NMT 0.05	FL/SOP/05-01
18	4,4-DDE	BLQ, [LOQ-0.01]	NMT 0.05	FL/SOP/05-01
19	2,4-DDT	BLQ, [LOQ-0.01]	NMT 0.05	FL/SOP/05-01
20	4,4-DDT	BLQ, [LOQ-0.01]	NMT 0.05	FL/SOP/05-01
21	Fenitrothion	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
22	Fenthion	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
23	Methyl Parathion	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
24	Ethyl Parathion	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-01
25	Monocrotophos	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/03-01
26	Ferbam as CS2	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/05-04

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<b>Microbiological Analysis:</b>				
1	Total Plate Count, cfu/g	80	NMT 1x10 <sup>6</sup>	IS-5402 (P-1)
2	Bacillus cereus , cfu/g	<10	NMT 1x10 <sup>3</sup>	IS-5887 (P-6)
3	Salmonella sp., per 25g	Absent	Absent	IS-5887 (P-3)
4	Enterobacteriaceae, cfu/g	<10	NMT 1x10 <sup>2</sup>	ISO 21528-2
5	Yeast & Mould Count, cfu/g	<10	NMT 1x10 <sup>4</sup>	IS-5403
6	Staphylococcus aureus, CFU/g	<10	NMT 1x10 <sup>2</sup>	IS-5887 (P-8)
7	Sulphite Reducing clostridium spores, cfu/g	<10	NMT 1x10 <sup>2</sup>	ISO-15213-1

**NMT**=Not More Than

**Inference:** The tested sample **conforms** to FSSR, 2011 w.r.t. above test.

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Ms. Meenakshi Bakshi, Scientist-B

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