

Location 1 (Permanent Facility) L-17/3, DLF Phase-II, IFFCO Chowk

M.G. Road, Gurugram - 122 002, Haryana, INDIA

Tel.: +91-124-4223207-08, 4034205 | Cell: +91-9289351688

Location 1 (Permanent Site Facility)

D-18, Infocity Ph.-II, Sec-33, Gurugram - 122001, Haryana, INDIA.

Email: farelabs@farelabs.com | Website: www.farelabs.com

Tel.: +91-124-4057437 | Cell: +91-9289351688

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

Laboratory Provided Information:

Sample Quantity Date of Performance of Test Method of Sampling

: Black Pepper

: 1x521g, Sealed Polypack

: 11th - 16th Oct, 2024

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



Analysis Report

FSSR, Clause No.: 2.9.15

S. No.	Parameter	Test Result	FSSR, 2011	Protocol	
Chemical Analysis:					
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	Exranous 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

Page 1 of 6

thorised Signatory Mr. Plyush Jai Mallick, Scientist C

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S. No.	Parameter	Test Result	FSSR, 2011	Protocol		
Syntheti	Synthetic Colors:					
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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Nature/Name of the Sample

Laboratory Provided Information:

Sample Quantity
Date of Performance of Test
Method of Sampling

: Black Pepper

: 1x521g, Sealed Polypack : 11th - 16th Oct, 2024

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Analysis Report

S. No.	Parameter	Test Result	FSSR, 2011	Protocol			
Heavy M	Heavy Metals:						
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

Reviewed By

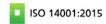
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Authorised Signatory Mr. Mithilest Kumar, Scientist-B

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S. No.	Parameter	Test Result	FSSR, 2011	Protocol
Other c	ontaminant , mg/kg			
1	Melamine	BLQ, [LOQ-0.25]	NMT 2.5	FL/SOP/04-02
Mycoto	xins(μg/kg)			
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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Method of Sampling

: Black Pepper

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Analysis Report

S. No.	Parameter	Test Result	FSSR, 2011	Protocol		
Pestici	Pesticide Residues, mg/kg:					
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	Metalaxyl-M	BLQ, [LOQ-0.01]	NMT 0.5	FL/SOP/03-01		
Banne	d Pesticides, mg/kg	01 0 1		, ,		
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		

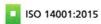
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FL / T / GEN / F-05



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Microbio	Microbiological Analysis:						
1	Total Plate Count, cfu/g	80	NMT 1x10 ⁶	IS-5402 (P-1)			
2	Bacillus cereus , cfu/g	<10	NMT 1x10 ³	IS-5887 (P-6)			
3	Salmonella sp., per 25g	Absent	Absent	IS-5887 (P-3)			
4	Enterobacteriaceae, cfu/g	<10	NMT 1x10 ²	ISO 21528-2			
5	Yeast & Mould Count, cfu/g	<10	NMT 1x10 ⁴	IS-5403			
6	Staphylococcus aureus, CFU/g	<10	NMT 1x10 ²	IS-5887 (P-8)			
	Sulphite Reducing clostridium		NINAT 4 402				
7	spores, cfu/g	<10	NMT 1x10 ²	ISO-15213-1			

NMT=Not More Than

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

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Authorised Signatory Ms. Meenakshi Bakshi, Scientist-B

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