

## TEST REPORT

### Issued to :

#### Pahadan's Farm

RZF-173 D, Street Number 32, Sadhnagar II,  
 Landmark For Google Maps : Pradhan Chowk, Block C,  
 Sadhnagar  
 Palam-110045  
 New Delhi, India

J.O. No. : O&F20250611-006-036  
 ULR Code : TC5503 25 1 00004036 F  
 Report Date : 16-06-2025  
 Sample Receipt Date : 11-06-2025  
 Account Manager : BD Team 28  
 Credit Manager : Gulab Singh



### Customer Provided Information:#

Nature/Name of the Sample

: Ghee

### Laboratory Provided Information:

Sample Quantity & Packaging  
 Date of Performance of Test  
 Method of Sampling  
 Sample Picked by

: 1x500ml, Sealed Glass Jar  
 : 10<sup>th</sup> - 16<sup>th</sup> June, 2025  
 : FL/SOP/B/D-03  
 : Mr. Ashvendra (FARE Labs Representative) at the  
 premises of Pahadan's Farm



## Analysis Report

**Physical Description :** Light pale yellow colour, acceptable flavor, free from rancidity, added flavouring substances suspended or foreign matter, separated water & Added colouring matter.

S. No.	Parameters	Unit	Test Results	FSSR, 2011	Method
<b>Chemical Analysis</b>					
1	Baudouin Test	--	Negative	Negative	IS 3508
2	BR Reading at 40 °C	--	41.7	40.0-44.0	IS 3508
3	Free Fatty Acid (as Oleic Acid)	% by wt	0.77	NMT 2.0	IS 3508
4	Moisture	% by wt	0.36	NMT 0.5	IS 3508
5	Peroxide value	meq/Kg	0.58	Not Specified	IS 3508
6	Phosphorus Content	mg/kg	3.10	Not Specified	AOCS Ca 12-55
7	Polenske value	--	1.03	0.5-2.0	FSSAI Manual for Dairy & Dairy Products
8	RM value	--	26.89	NLT 24.0	IS 3508
9	Shelf Life	months	11.32	Not Specified	AOCS Cd-12b-92
10	Saponification value	--	234.28	205-235	IS 3508: 1966
11	Test for Mineral oil	--	Negative	Negative	FSSAI Manual For Oils & Fats
12	Test for the presence of oil soluble colours in oil	--	Absent	Absent	FSSAI Manual 2016

**Authorised Signatory**

Mr. Piyush Jai Mallick, Scientist-C

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: 1x500ml, Sealed Glass Jar

Date of Performance of Test

: 10<sup>th</sup> - 16<sup>th</sup> June, 2025

Method of Sampling

: FL/SOP/B/D-03

Sample Picked by

: Mr. Ashvendra (FARE Labs Representative) at the  
 premises of Pahadan's Farm



## Analysis Report

S. No.	Parameters	Unit	Test Results	FSSR, 2011	Method
<b>Heavy Metals</b>					
1	Arsenic	mg/kg	BLQ, (LOQ-0.02)	NMT 1.1	FL/SOP/12-04
2	Calcium	mg/100g	BLQ, (LOQ-0.5)	Not Specified	FL/SOP/11-04
3	Cadmium	mg/kg	BLQ, (LOQ-0.02)	NMT 1.5	FL/SOP/12-04
4	Copper	mg/kg	BLQ, (LOQ-0.05)	NMT 30	FL/SOP/12-04
5	Lead	mg/kg	BLQ, (LOQ-0.02)	NMT 0.02	FL/SOP/12-04
6	Mercury	mg/kg	BLQ, (LOQ-0.02)	NMT 1.0	FL/SOP/12-04
7	Methyl mercury as element	mg/kg	BLQ, (LOQ-0.02)	NMT 0.25	FL/SOP/12-04
8	Tin	mg/kg	BLQ, (LOQ-0.05)	NMT 250	FL/SOP/12-04
<b>Metal Analysis</b>					
1	Iron	mg/kg	BLQ, (LOQ-0.05)	Not Specified	FL/SOP/12-04
<b>Aflatoxins</b>					
1	Aflatoxin M1	µg/kg	BLQ, (LOQ-0.015)	Not Specified	FL/SOP/04-01
<b>Other Contaminants</b>					
1	Melamine	mg/kg	BLQ, (LOQ-0.05)	NMT 2.5	FL/SOP/04-02
<b>Pesticide Residues</b>					
1	2,4-Dichlorophenoxy Acetic Acid	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/03-01
2	Acephate (expressed as mixture of Methamidophos & acephate)	mg/kg	BLQ, (LOQ-0.01)	NMT 0.02	FL/SOP/03-01
3	Acetamiprid	mg/kg	BLQ, (LOQ-0.01)	NMT 0.02	FL/SOP/03-01
4	Azoxystrobin	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01
5	Benomyl	mg/kg	BLQ, (LOQ-0.01)	NMT 0.1	FL/SOP/03-01
6	Bifenthrin	mg/kg	BLQ, (LOQ-0.01)	NMT 0.2	FL/SOP/05-01
7	Bitertanol	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/03-01
8	Buprofezin	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01
9	Carbofuran (sum of carbofuran & 3-hydroxy carbofuran expressed as carbofuran)	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01

*Mithilesh Kumar*

**Authorised Signatory**

Mr. Mithilesh Kumar, Scientist-B

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TC - 5503

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S. No.	Parameters	Unit	Test Results	FSSR, 2011	Method
<b>Pesticide Residues</b>					
10	Carbaryl	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/03-01
11	Carbendazim	mg/kg	BLQ, (LOQ-0.01)	NMT 0.1	FL/SOP/03-01
12	Chlorantraniliprole	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/03-01
13	Chlorothalonil	mg/kg	BLQ, (LOQ-0.01)	NMT 0.07	FL/SOP/05-01
14	Chlorpyrifos	mg/kg	BLQ, (LOQ-0.01)	NMT 0.02	FL/SOP/05-01
15	Chlothianidin (Chlothianidin and its metabolites Thiazolymethylguanidine (TMG), Thiazolymethylurea (TZMU), Methylnitroguanidine (MNG) TMG)	mg/kg	BLQ, (LOQ-0.01)	NMT 0.02	FL/SOP/03-01
16	Cypermethrin (sum of isomers) (Fat soluble residue)	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/05-01
17	Deltamethrin	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/05-01
18	Dichlorvos (DDVP) (content of di-chloroacetaldehyde (D.C.A.) be reported where possible)	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/05-01
19	Difenoconazole	mg/kg	BLQ, (LOQ-0.01)	NMT 0.02	FL/SOP/03-01
20	Dimethoate	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/03-01
21	Dinotefuran	mg/kg	BLQ, (LOQ-0.01)	NMT 0.1	FL/SOP/03-01
22	Edifenphos	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01
23	Ethion (Residues to be determined as ethion and its oxygen analogue and expressed as ethion)	mg/kg	BLQ, (LOQ-0.01)	NMT 0.5	FL/SOP/05-01
25	Ethofenprox (Etofenprox)	mg/kg	BLQ, (LOQ-0.01)	NMT 0.02	FL/SOP/03-01
26	Fenpropathrin	mg/kg	BLQ, (LOQ-0.01)	NMT 0.1	FL/SOP/05-01
27	Fenvalerate (Fat soluble residue)	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/05-01
28	Fipronil	mg/kg	BLQ, (LOQ-0.01)	NMT 0.02	FL/SOP/03-01
29	Flubendiamide	mg/kg	BLQ, (LOQ-0.01)	NMT 0.1	FL/SOP/03-01
30	Flusilazole	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/03-01

*Mithilesh Kumar*

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: Ghee

### Laboratory Provided Information:

Sample Quantity & Packaging : 1x500ml, Sealed Glass Jar  
 Date of Performance of Test : 10<sup>th</sup> - 16<sup>th</sup> June, 2025  
 Method of Sampling : FL/SOP/B/D-03  
 Sample Picked by : Mr. Ashvendra (FARE Labs Representative) at the premises of Pahadan's Farm



## Analysis Report

S. No.	Parameters	Unit	Test Results	FSSR, 2011	Method
<b>Pesticide Residues</b>					
31	Glufosinate Ammonium	mg/kg	BLQ, (LOQ-0.01)	NMT 0.02	FL/SOP/03-01
32	Imidacloprid	mg/kg	BLQ, (LOQ-0.01)	NMT 0.1	FL/SOP/03-01
33	Indoxacarb	mg/kg	BLQ, (LOQ-0.01)	NMT 0.1	FL/SOP/03-01
34	Kresoxim Methyl	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/05-01
35	Methomyl	mg/kg	BLQ, (LOQ-0.01)	NMT 0.02	FL/SOP/03-01
36	Monocrotophos	mg/kg	BLQ, (LOQ-0.01)	NMT 0.02	FL/SOP/03-01
37	Mancozeb as CS2	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/05-04
38	Methyl Chlorophenoxy Acetic Acid (MCPA)	mg/kg	BLQ, (LOQ-0.01)	NMT 0.04	FL/SOP/03-01
39	Metiram as CS2	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/05-04
40	Metolachlor	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01
41	Oxydemeton-Methyl	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01
42	Paraquat dichloride (Determined as Paraquatcations)	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01
43	Penconazole	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01
44	Phenthoate	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/05-01
45	Phorate (sum of Phorate, its oxygen analogue and their sulphoxides and sulphones, expressed as phorate)	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/05-01
46	Pirimiphos-methyl	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/05-01
47	Propiconazole	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01
48	Pyraclostrobin	mg/kg	BLQ, (LOQ-0.01)	NMT 0.03	FL/SOP/03-01
49	Tebuconazole	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01
50	Thiacloprid	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/03-01
51	Thiamethoxam	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/03-01
52	Thiophanate-Methyl	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/03-01
53	Triaccontanol	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01
54	Triadimefon	mg/kg	BLQ, (LOQ-0.01)	NMT 0.01	FL/SOP/03-01

**Authorised Signatory**

Mr. Mithilesh Kumar, Scientist-B

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: 10<sup>th</sup> - 16<sup>th</sup> June, 2025

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: FL/SOP/B/D-03

Sample Picked by

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 premises of Pahadan's Farm



## Analysis Report

S. No.	Parameters	Unit	Test Results	FSSR, 2011	Method
<b>Pesticide Residues</b>					
55	Trichlorfon	mg/kg	BLQ, (LOQ-0.01)	NMT 0.05	FL/SOP/03-01

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<b>Fatty Acid Profile</b>					
1	Butyric (C4:0)	% by wt	1.653	1.0-5.0	FL/SOP/02-45
2	Caproic (C6:0)	% by wt	1.585	0.5-2.2	FL/SOP/02-45
3	Caprylic (C8:0)	% by wt	1.029	0.4-1.5	FL/SOP/02-45
4	Capric (C10:0)	% by wt	2.276	0.8-5.0	FL/SOP/02-45
5	Lauric Acid (C12:0)	% by wt	2.741	1.5-4	FL/SOP/02-45
6	Myristic (C14:0)	% by wt	10.828	6.0-13.0	FL/SOP/02-45
7	Myristoleic (C14:1)	% by wt	0.916	Not Specified	FL/SOP/02-45
8	Pentadecanoic (C15:0)	% by wt	1.313	Not Specified	FL/SOP/02-45
9	Cis-10 Pentadecanoic (C15:1)	% by wt	0.435	Not Specified	FL/SOP/02-45
10	Palmitic (C16:0)	% by wt	32.822	22-38	FL/SOP/02-45
11	Palmitoleic (C16:1)	% by wt	1.512	0.9-2.8	FL/SOP/02-45
12	Heptadecanoic (C17:0)	% by wt	0.948	Not Specified	FL/SOP/02-45
13	Cis-10 Heptadecanoic (C17:1)	% by wt	0.306	Not Specified	FL/SOP/02-45
14	Stearic (C18:0)	% by wt	13.637	8.0-19.0	FL/SOP/02-45
15	Oleic (C18:1 9c)	% by wt	22.296	19-32	FL/SOP/02-45
16	Linoleic (C18:2)	% by wt	1.278	0.5-3.5	FL/SOP/02-45
17	Linolenic (C18:3)	% by wt	0.395	0.3-1.0	FL/SOP/02-45
18	Arachidic Acid (C20:0)	% by wt	0.512	Not Specified	FL/SOP/02-45
19	Eicosenoic (C20:1)	% by wt	0.225	Not Specified	FL/SOP/02-45
20	Behenic (C22:0)	% by wt	0.314	Not Specified	FL/SOP/02-45
21	Mono Unsaturated Fatty Acids	% by wt	26.15	Not Specified	FL/SOP/02-45
22	Poly Unsaturated Fatty Acids	g/100g	1.67	Not Specified	FL/SOP/02-45
23	Saturated Fatty Acids	g/100g	70.06	Not Specified	FL/SOP/02-45
<b>Trans Fatty Acids</b>					
1	c-9, t-12 Linoleic (C18:2 trans)	% by wt	ND, [DL-0.05]	Not Specified	FL/SOP/02-45
2	t-9, c-12 Linoleic (C18:2 trans)	% by wt	ND, [DL-0.05]	Not Specified	FL/SOP/02-45

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**Dr. Sammaiah Arukali**

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S. No.	Parameters	Unit	Test Results	FSSR, 2011	Method
<b>Trans Fatty Acids</b>					
3	Total Trans Fatty Acids	% by wt	2.12	Not Specified	FL/SOP/02-45

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 Dr. Sammaiah Arukali

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## TEST REPORT

### Issued to :

#### Pahadan's Farm

RZF-173 D, Street Number 32, Sadhnagar II,  
 Landmark For Google Maps : Pradhan Chowk, Block C,  
 Sadhnagar  
 Palam-110045  
 New Delhi, India

J.O. No. : O&F20250611-006-036  
 ULR Code : TC5503 25 1 00004036 F  
 Report Date : 16-06-2025  
 Sample Receipt Date : 11-06-2025  
 Account Manager : BD Team 28  
 Credit Manager : Gulab Singh



### Customer Provided Information:#

Nature/Name of the Sample

: Ghee

### Laboratory Provided Information:

Sample Quantity & Packaging

: 1x500ml, Sealed Glass Jar

Date of Performance of Test

: 10<sup>th</sup> - 16<sup>th</sup> June, 2025

Method of Sampling

: FL/SOP/B/D-03

Sample Picked by

: Mr. Ashvendra (FARE Labs Representative) at the  
 premises of Pahadan's Farm



## Analysis Report

S. No.	Parameters	Unit	Test Results	FSSR, 2011	Method
<b>Nutritional Analysis</b>					
1	Added Sugar	% by wt	0.0	Not Specified	FL/SOP/OC-29
2	Cholesterol	mg/100g	171.44	Present	FL/SOP/02-42
3	Dietary Fiber	% by wt	0.0	Not Specified	FL/SOP/OC-41
4	Energy	kcal/100g	896.76	Not Specified	FL/SOP/OC-35
5	Protein	% by wt	0.0	Not Specified	FL/SOP/OC-45
6	Sodium	mg/100g	BLQ, (LOQ-0.5)	Not Specified	FL/SOP/11-04
7	Total Carbohydrate	% by wt	0.0	Not Specified	FL/SOP/OC-46
8	Total Fat	%	99.64	NLT 99.5	FSSAI Manual for Dairy & Dairy Products
9	Total sugars	% by Wt.	0.0	Not Specified	FL/SOP/OC-29

**ND**= Not Detected; **DL**= Detection Limit; **BLQ**= Below Limit of Quantification; **LOQ**= Limit of Quantification; **NMT**= Not More Than; **NLT**= Not Less Than

'\*' = LOQ: 1 for each individual B1, B2 and G1 & G2 respectively.

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

**Authorised Signatory**

Mr. Piyush Jai Mallick, Scientist-C

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\*\*\*\*\*End of Report\*\*\*\*\*