

ORIGINAL NOT NEGOTIABLE

Report Ref : 4012610980


NCML LABS

Test Report

ULR - TC-650726000002431F

Discipline : Chemical

Product Group : Food and Agricultural Products

Sub Group : Dairy Products and Analogues (Except Human Milk)

Issued To:

Issue Date : 26-Feb-2026

Client Reference : By TRF

Graze and Grow
**Kh. No. 14g, Chak Basantpur, Noida City Zone – 5,
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Sample Details:		
Sample ID	:	4012610980
Name of the Sample	:	Desi Ghee
Date of Receipt	:	23-Jan-2026
Job Ref. No.	:	TR/8845/25-26
Place of receipt / Lab	:	Gurgaon
Sample particulars	:	Desi Ghee , Sample Quantity : 500 GM
Sampling Details	:	Sample Not Drawn by us
Analysis Starting Date	:	23-Jan-2026
Analysis Completion Date	:	26-Feb-2026
Sample Condition	:	Fit for analysis

Test Results

S.No	Test Parameter	Unit of Measurement	Test Method	Specification	Test Result
Group : General Parameters					
1	Fat	%	FSSAI Manual of Methods	Not Specified	99.85
2	Foreign Fat	-	FSSAI Manual of Methods of Analysis of Foods : Dairy and Dairy Products-2022	Absent	Absent
3	Moisture	%	FSSAI Manual of Methods of Analysis of Foods : Dairy and Dairy Products-2022	Max 0.5	0.13
4	Protein	%	IS 7219: 1973	Not Specified	BLQ(LOQ-0.1)
5	Carbohydrates	%	IS 1656 : 2022	Not Specified	BLQ(LOQ-0.1)
6	Cholesterol	mg/100g	AOAC 994.10	Not Specified	252.176
7	Baudouin test	-	IS 3508: 1966	Negative	Negative

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S.No	Test Parameter	Unit of Measurement	Test Method	Specification	Test Result
Group : General Parameters					
8	Butyro refractometer reading at 40°C	-	IS 3508: 1966	40.0 to 44.0	42.4
9	FFA (as Oleic acid)	%	IS 3508: 1966	Max 2.0	0.35
10	Milk fat	%	IS 3508: 1966	Min 99.5	99.85
11	Polenske value	-	IS 3508: 1966	0.5 -2.0	1.02
12	Reichert Meissel Value (R.M Value)	-	IS 3508: 1966	Min 24.0	28.54
13	Energy	Kcal/100g	CommGrade/L3-GG N-FOO-132	Not Specified	898.73
14	Iodine value	-	IS 3508: 1966	25-38	31.15
15	Saponification Value	-	IS 3508: 1966	205-235	216.51
Group : Vitamins					
16	Beta sitosterol	-	FSSAI Manual	Absent	Absent
Group : Fatty Acids Profile					
17	Dodecanoic acid	g/100g	AOAC 996.06	1.5 - 4	2.624
18	Hexadecanoic acid	g/100g	AOAC 996.06	22-38	30.565
19	(Cis 9) Hexadecanoic acid	g/100g	AOAC 996.06	0.9-2.8	1.705
20	(Cis 9) 9-Octadecanoic acid	g/100g	AOAC 996.06	19-32	28.814
21	(Cis 9,12) 9,12 - Octadecadienoic acid	g/100g	AOAC 996.06	0.5-3.5	2.461
22	(Cis 9,12,15) 9,12,15 - Octadecadienoic acid	g/100g	AOAC 996.06	0.3-1.0	0.494
23	Trans Fatty acid (TFA)	g/100g	AOAC 996.06	Not Specified	BLQ(LOQ-0.1)
24	Butyric acid	g/100g	AOAC 996.06	1 -5	1.818
25	Hexanoic acid	g/100g	AOAC 996.06	0.5 – 2.2	1.600
26	Octanoic acid	g/100g	AOAC 996.06	0.4 – 1.5	1.051
27	Decanoic acid	g/100g	AOAC 996.06	0.8- 5	2.374
28	Tetradecanoic acid	g/100g	AOAC 996.06	6- 13	9.212
29	Octadecanoic acid	g/100g	AOAC 996.06	8-19	17.130
30	Monounsaturated fattyacids	g/100g	AOAC 996.06	Not Specified	30.519
31	Polyunsaturated fatty acids	g/100g	AOAC 996.06	Not Specified	2.956
32	Saturated fatty acids	g/100g	AOAC 996.06	Not Specified	66.375

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S.No	Test Parameter	Unit of Measurement	Test Method	Specification	Test Result
Group : Metal Contaminants					
33	Sodium	mg/100g	CommGrade/L3-GG N-FOO-003	Not Specified	BLQ(LOQ-0.1)

Remarks

- 1.Sample complies with the requirements of Food Safety Standards Regulation 2011 with respect to above tested parameters (For specified parameters only).
- 2.Sample particulars are provided by customer.
- 3.Where ever applicable, the decision rule as per QSP 27 is applied to declare the statement of conformity to a specification or standard provided in the test report.
- 4.This report cancels and supersede report no. 4012610980, dated: 14.02.2026 (Change in value of fatty acid).

Authorized By
Deepak Kumar
Technical Manager - Chemical

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----- End of the test report -----