

TEST REPORT



Report Issued To: M/s.DUGDHAMRUTAM
AT.SHRI RAMAN MAHESH GAU
SAMVARDHAN & DHAYAN KEMDRA,VILL:LAXMINAGAR,
JUNA SADULKA,MORBI-363642.(MO:8980855882)

ULR : TC761324000001790F

Issued Date: 09/04/2024

Report No. : HTL/F/240403005

Part A: Particular of Sample Submitted

(a) Name of Sample : GIR COW GHEE
(c) Mode of Packing : GLASS JAR
(e) Sample Collection Date : 02/04/2024
(g) Date of Receipt : 03/04/2024

(b) Quantity : 1 X 300 ML
(d) Sample Condition : Satisfactory
(f) Any other Information : NA

Part B:

Date of start of Testing : 03/04/2024

Date of Completion : 09/04/2024

Part C: Test Result

Sr.No.	Test Parameter	Results	Specification	Test Method
1	Moisture %	0.11	NMT 0.5%	FSSAI Manual of Methods of Analysis of foods "Milk and Milk Products"
2	Butyro refractometer Reading at 40 °C	42.0	40.0 to 44.0	FSSAI Manual of Methods of Analysis of foods "Milk and Milk Products"
3	Reichert Meissl Value	29.01	NLT 24.0	FSSAI Manual of Methods of Analysis of foods "Milk and Milk Products"
4	Polenske Value	1.73	0.5 -2.0	FSSAI Manual of Methods of Analysis of foods "Milk and Milk Products"
5	FFA as Oleic Acid %	0.11	NMT 2.0%	FSSAI Manual of Methods of Analysis of foods "Milk and Milk Products"


RAJESH C PATEL
Reviewed by




NIKITA PATEL
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Sr.No.	Test Parameter	Results	Specification	Test Method
6	Baudouin Test	Negative	Negative	FSSAI Manual of Methods of Analysis of foods "Milk and Milk Products"
7	Iodine Value	36.81	25-38	FSSAI Manual of Methods of Analysis of foods "Milk and Milk Products"
8	Saponification value	219.36	205-235	FSSAI Manual of Methods of Analysis of foods "Milk and Milk Products"
9	Added coloring matter	Absent	Absent	FSSAI Manual Food Additives 2016
10	Acid Value	0.22	Not Specified	IS:548 Part-I:1964
11	Bellier Test °C	20.5	Not Specified	IS:548 Part-II:1976
12	Test for Mineral oil	Negative	Negative	IS:548 Part-II:1976
13	Test for Castor oil	Negative	Negative	FSSAI Manual Oil & Fats 2021
14	Test for Argemone oil	Negative	Negative	FSSAI Manual Oil & Fats 2021
15	Test for Cotton seed oil(Halphan's Test)	Negative	Negative	FSSAI Manual Oil & Fats 2021
16	Cloud Point °C	19	Not Specified	FSSAI Manual Oil & Fats 2021

NA= Not Applicable, NM= Not Mentioned, BLQ=Below Limit of Quantification, QL=Quantification Limit


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Note:

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Part A: Particular of Sample Submitted

(a) Name of Sample	: GIR COW GHEE	(b) Quantity	: 1 X 300 ML
(c) Mode of Packing	: GLASS JAR	(d) Sample Condition	: Satisfactory
(e) Sample Collection Date	: 02/04/2024	(f) Any other Information	: NA
(g) Date of Receipt	: 03/04/2024		

Part B:

Date of start of Testing : 03/04/2024

Date of Completion : 09/04/2024

Part C: Test Result

Sr.No.	Test Parameter	Results	Specification	Test Method
1	Total Protein %	BLQ(QL 0.1)	Not Specified	FSSAI Manual Milk & Milk Product 2021
2	Total Carbohydrate %	ELQ,QL 0.1)	Not Specified	UNFAO Method
3	Total Sugar %	BLQ(QL 0.1)	Not Specified	FSSAI Manual Fruits & Vegetable 2016
4	Total Fat %	99.89	Not Specified	IS:15271
5	Saturated fatty acids			
5.1	C4:0, Butyric acid %	2.76	1 -5	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
5.2	C6:0, Hexanoic acid (Caproic acid) %	2.14	0.5 – 2.2	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
5.3	C8:0, Octanoic acid (Caprylic acid) %	1.45	0.4 – 1.5	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
5.4	C10:0, Decanoic acid (Capric acid) %	3.16	0.8- 5	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
5.5	C12:0, Dodecanoic acid (Lauric acid) %	3.09	1.5 - 4	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
5.6	C14:0, Tetradecanoic acid (Myristic acid) %	9.79	6- 13	FSSAI Manual of Methods of Analysis of


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Sr.No.	Test Parameter	Results	Specification	Test Method
5.7	C16:0, Hexadecanoic acid (Palmitic acid) %	29.32	22-38	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
5.8	C18:0, Octadecanoic acid (Stearic acid) %	13.76	8-19	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
6	Mono- unsaturated fatty acids			
6.1	C16:1 (Cis 9), (Hexadecanoic acid (Palmitoleic acid) %	1.46	0.9-2.8	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
6.2	C18:1 (cis 9) 9-Octadecenoic acid (Oleic acid) %	22.47	19-32	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
7	Poly- unsaturated fatty acids			
7.1	C18:2 (cis 9,12), 9,12-Octadecadienoic acid (Linoleic acid) %	2.73	0.5-3.5	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
7.2	C18:3 (cis 9,12,15) 9,12,15-Octadecatrienoic acid %	0.33	0.3-1.0	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
8	Vitamin A mg/kg	BLQ(QL 0.1)	Not Specified	As per SOP No:HTL/WI/C/F/161
9	Vitamin D mg/kg	0.0187	Not Specified	As per SOP No:HTL/WI/C/F/161
10	Vitamin E mg/kg	0.0936	Not Specified	As per SOP No:HTL/WI/C/F/161

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(b) Quantity : 1 X 300 ML
(d) Sample Condition : Satisfactory
(f) Any other Information : NA

Part B:

Date of start of Testing : 03/04/2024

Date of Completion : 09/04/2024

Part C: Test Result

Sr.No.	Test Parameter	Results	Specification	Test Method
1	Omega 3 %	BLQ(QL 0.1)	Not Specified	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
2	Omega 6 %	3.46	Not Specified	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"
3	Omega 9 %	BLQ(QL 0.1)	Not Specified	FSSAI Manual of Methods of Analysis of foods "Oils and Fats"

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