



SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT



TC-6118

ULR - TC611824000030780F

Page 1 of 3

Report No : QFD24061074-01 (Part A)

Report Date: 02 Jul 2024

Customer Name : M/s. A R Dairy Food Private Limited

Customer Address : 10/5C ,Madurai Road, Begampur Post, Dindigul-624002

Sample Name : Raaj Cow Ghee

Sample Quantity : 200ml x 1No

Sample Description : Raaj Cow Ghee

Sample Received on : 29 Jun 2024

Reference : Test Request Form Dated 27.06.2024

Test Started on : 29 Jun 2024

Sample Identification : Lot No: T006, Mfg Date: 26/06/2024

Test Completed on : 02 Jul 2024

Sample Drawn By : Customer

TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011
Chemical					
1	Added Colouring Matter	FSSAI Manual of Methods of Analysis- Food Additives - 2016	--	Absent	Absent
2	Appearance/ Description	SMSLA/FD/SOP/033 - 2024	--	Pale Yellow coloured granular semi solid	--
3	Baudouins Test	FSSAI Manual of Methods of Analysis- Dairy and Dairy Products- 2022	--	Negative	--
4	Butyro Refractometer Reading at 40°C	FSSAI Manual of Methods of Analysis- Dairy and Dairy Products- 2022	--	42.3	40.0 – 44.0
5	Colour	SMSLA/FD/SOP/033 - 2024	--	Pale Yellow	--
6	Extraneous Matter/ Foreign Matter	SMSLA/FD/SOP/015 - 2024	--	Absent	--
7	Flavour	SMSLA/FD/SOP/033 - 2024	--	Pleasant Flavour	--
8	Free Fatty Acid as Oleic acid	FSSAI Manual of Methods of Analysis- Dairy and Dairy Products- 2022	g/100g	0.36	NMT 2.0
9	Iodine Value	IS 3508 - 1966 (Reaffirmed 2018)	--	28.94	25 - 38
10	Melting Point	IS 3508 - 1966 (Reaffirmed 2018)	°C	31.38	--
11	Milk Fat	FSSAI Manual of Methods of Analysis- Dairy and Dairy Products- 2022	g/100g	99.82	NLT 99.5

P. Jayasudha
P. Jayasudha
Authorised Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai – 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.



SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT



TC-6118

ULR - TC611824000030780F

Page 2 of 3

Report No : QFD24061074-01 (Part A)

Report Date: 02 Jul 2024

S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011
12	Mineral Oil	SMSLA/FD/SOP/024 - 2024	--	Absent	--
13	Moisture	FSSAI Manual of Methods of Analysis- Dairy and Dairy Products- 2022	g/100g	0.18	--
14	Peroxide value	FSSAI Manual of Methods of Analysis- Dairy and Dairy Products- 2022	meq/Kg	Nil	--
15	Polenske value	FSSAI Manual of Methods of Analysis- Dairy and Dairy Products- 2022	--	1.35	0.5 – 2.0
16	Rancidity	SMSLA/FD/SOP/024 - 2024	--	Absent	--
17	Reichert Meissel Value	FSSAI Manual of Methods of Analysis- Dairy and Dairy Products- 2022	--	28.56	NLT 24.0
18	Saponification Value	IS 3508 - 1966 (Reaffirmed 2018)	mg KOH/g	219.75	205 - 235
19	Taste	SMSLA/FD/SOP/033 - 2024	--	Pleasant taste	--
Fatty Acid Profile					
20	Trans Fat	SMSLA/GM/SOP/01 - 2019	g/100g	BLQ(LOQ:0.001)	--
Fatty Acid Profile Mono-unsaturated Fatty Acids (MUFA's)					
21	C16:1; Palmitoleic acid	SMSLA/GM/SOP/01 - 2019	g/100g	2.416	0.9 – 2.8
22	C18:1; Oleic acid	SMSLA/GM/SOP/01 - 2019	g/100g	23.208	19 - 32
Fatty Acid Profile Polyunsaturated Fatty Acid (PUFA's)					
23	C18:2;Linoleic acid	SMSLA/GM/SOP/01 - 2019	g/100g	3.324	0.5 – 3.5
24	C18:3;Gamma-Linolenic acid	SMSLA/GM/SOP/01 - 2019	g/100g	BLQ(LOQ:0.001)	--
25	C18:3;Linolenic acid	SMSLA/GM/SOP/01 - 2019	g/100g	0.529	0.3 – 1.0
26	C20:2;Eicosadienoic acid	SMSLA/GM/SOP/01 - 2019	g/100g	BLQ(LOQ:0.001)	--
27	C20:3; 11,14,17-Eicosatrienoic acid	SMSLA/GM/SOP/01 - 2019	g/100g	BLQ(LOQ:0.001)	--
28	C20:3; 8,11-14-Eicosatrienoic acid	SMSLA/GM/SOP/01 - 2019	g/100g	BLQ(LOQ:0.001)	--
29	C20:4; Arachidonic acid	SMSLA/GM/SOP/01 - 2019	g/100g	BLQ(LOQ:0.001)	--


A. Kanagavel

Authorized Signatory-Chemical


P. Jayasudha
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai – 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.



SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT



TC-6118

ULR - TC611824000030780F

Page 3 of 3

Report No : QFD24061074-01 (Part A)

Report Date: 02 Jul 2024

S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011
30	C20:5; Eicosopentanoic acid	SMSLA/GM/SOP/01 - 2019	g/100g	BLQ(LOQ:0.001)	--
31	C22:2; 13-16-Docosadienoic acid	SMSLA/GM/SOP/01 - 2019	g/100g	BLQ(LOQ:0.001)	--
32	C22:6; Docosohexanoic acid	SMSLA/GM/SOP/01 - 2019	g/100g	BLQ(LOQ:0.001)	--
Fatty Acid Profile Saturated Fatty Acids					
33	C10:0; Capric acid	SMSLA/GM/SOP/01 - 2019	g/100g	1.797	0.8 - 5
34	C12:0; Lauric acid	SMSLA/GM/SOP/01 - 2019	g/100g	3.184	1.5 - 4
35	C14:0; Myristic acid	SMSLA/GM/SOP/01 - 2019	g/100g	11.270	6 - 13
36	C16:0; Palmitic acid	SMSLA/GM/SOP/01 - 2019	g/100g	36.764	22 - 38
37	C18:0; Stearic acid	SMSLA/GM/SOP/01 - 2019	g/100g	11.779	8 - 19
38	C4:0; Butyric acid	SMSLA/GM/SOP/01 - 2019	g/100g	2.945	1 - 5
39	C6:0; Caproic acid	SMSLA/GM/SOP/01 - 2019	g/100g	1.657	0.5 - 2.2
40	C8:0; Caprylic acid	SMSLA/GM/SOP/01 - 2019	g/100g	0.948	0.4 - 1.5
Fatty Acid Profile Trans Fatty Acids (TFA's)					
41	C18:2; Linolelaidic acid	SMSLA/GM/SOP/01 - 2019	g/100g	BLQ(LOQ:0.001)	--
Mycotoxins					
42	Aflatoxin M1	SMSLA/HC/SOP/03 - 2024	µg/kg	BLQ(LOQ:0.25)	--
Others - Cyanamides					
43	Melamine	SMSLA/LS/SOP/11 - 2024	mg/kg	BLQ(LOQ:0.01)	NMT 2.5
Trace Metal Elements					
44	Arsenic	SMSLA/IS/SOP/02 - 2024	mg/kg	BLQ(LOQ:0.01)	NMT 1.1
45	Lead	SMSLA/IS/SOP/02 - 2024	mg/kg	BLQ(LOQ:0.01)	NMT 0.02
46	Methyl Mercury [Calculated as Element]	SMSLA/IS/SOP/02 - 2024	mg/kg	BLQ(LOQ:0.1)	NMT 0.25

Note: BLQ: Below Limit of Quantification; LOQ: Limit of Quantification. NMT: Not more than. NLT: Not less than.

Remarks: The sample conforms with the specification as per Food Safety and Standards Regulation 2011, for the above tested parameters.

/***** End of the Report *****/

A. Kanagavel
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.



SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT

Page 1 of 1

Report No : QFD24061074-01 (Part B)

Report Date: 02 Jul 2024

Customer Name : M/s. A R Dairy Food Private Limited

Customer Address : 10/5C ,Madurai Road, Begampur Post, Dindigul-624002

Sample Name : Raaj Cow Ghee

Sample Quantity : 200ml x 1No

Sample Description : Raaj Cow Ghee

Sample Received on : 29 Jun 2024

Reference : Test Request Form Dated 27.06.2024

Test Started on : 29 Jun 2024

Sample Identification : Lot No: T006, Mfg Date: 26/06/2024

Test Completed on : 02 Jul 2024

Sample Drawn By : Customer

TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011
Others					
1	Presence of Beta Sitosterol	SMSLA/HC/SOP/63 - 2024	--	Absent	Absent

Remarks: The sample conforms with the specification as per Food Safety and Standards Regulation 2011, for the above tested parameter.

/***** End of the Report *****/

A. Kanagavel
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai – 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.