



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

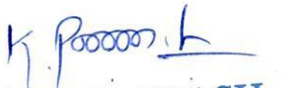
ULR - TC61182200000973F  
Report No : QFD22020140-08


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Report Date: 14 Feb 2022

**Customer Name** : M/s. A.R.Dairy Food Private Limited  
**Customer Address** : No:10/5C, Madurai Road,Begampur Post, Dindigul-624 002  
**Sample Name** : Raaj Ghee **Sample Quantity** : 200ml x 2No's  
**Sample Description** : Raaj Ghee **Sample Received on** : 09 Feb 2022  
**Reference** : Test Request Form Date 08.02.2022 **Test Started on** : 09 Feb 2022  
**Sample Identification** : Batch No:TJR, Mfg Date:13.10.2021 **Test Completed on** : 14 Feb 2022  
**Sample Drawn By** : Customer

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011 Amd.2022
<b>Food &amp; Agri- Milk &amp; Dairy Products</b>					
<b>Chemical</b>					
1	Baudouins Test	FSSAI Manual 1	--	Negative	Negative
2	Butyro Refractometer Reading at 40°C	FSSAI Manual 1	--	42.3	40.0-44.0
3	Total Carbohydrates	IS 1656	g/100g	Nil	--
4	Dietary Fibre	AOAC 985.29	g/100g	Nil	--
5	Energy	SMSLA/FD/SOP/011	Kcal/100g	898.47	--
6	Total Fat	SMSLA/FD/SOP/047	g/100g	99.83	NLT 99.5
7	Free Fatty Acid as Oleic acid	FSSAI Manual 1	g/100g	0.315	NMT 2.0
8	Moisture	FSSAI Manual 1	g/100g	0.17	NMT 0.5
9	Peroxide value	FSSAI Manual 1	meq/Kg	Nil	--
10	Polenske value	FSSAI Manual 1	--	1.37	0.5-2.0
11	Protein	AOAC 2001.11	g/100g	Nil	--
12	Reichert Meissel Value	FSSAI Manual 1	--	28.63	NLT 24.0
13	Total Sugar	SMSLA/FD/SOP/019	g/100g	Nil	--
14	Added Sugar	FSSAI Manual 1	g/100g	Nil	--
15	Iodine Value	IS 3508	--	30.81	25-38
16	Saponification Value	IS 3508	mg KOH/g	231.48	205-235
<b>Fatty Acid Profile</b>					
17	Trans Fat	SMSLA/GM/SOP/01	g/100g	BLQ(LOQ:0.001)	--
18	Omega- 3 Fatty Acids	SMSLA/GM/SOP/01	mg/100g	1447.0	--
19	Omega- 6 Fatty Acids	SMSLA/GM/SOP/01	mg/100g	2247.0	--

  
**K. PRAKASH**  
Senior Chemist

  
**S. RESHMA**  
Senior Chemist

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Certified By : ISO 9001 & ISO 45001.

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<b>Fatty Acid Profile Mono-unsaturated Fatty Acids (MUFA's)</b>					
20	C16:1; Palmitoleic acid	SMSLA/GM/SOP/01	g/100g	1.47	0.9-2.8
21	C18:1; Oleic acid	SMSLA/GM/SOP/01	g/100g	22.37	19-32
<b>Fatty Acid Profile Polyunsaturated Fatty Acid (PUFA's)</b>					
22	C18:3; 9,12,15 Octadecatrienoic acid	SMSLA/GM/SOP/01	g/100g	0.56	0.3-1.0
23	C18:2; Linolenic acid	SMSLA/GM/SOP/01	g/100g	1.89	0.5-3.5
<b>Fatty Acid Profile Saturated Fatty Acids</b>					
24	C10:0; Capric acid	SMSLA/GM/SOP/01	g/100g	2.05	0.8-5
25	C12:0; Lauric acid	SMSLA/GM/SOP/01	g/100g	2.69	1.5-4
26	C14:0; Myristic acid	SMSLA/GM/SOP/01	g/100g	8.85	6-13
27	C16:0; Palmitic acid	SMSLA/GM/SOP/01	g/100g	30.86	22-38
28	C18:0; Stearic acid	SMSLA/GM/SOP/01	g/100g	11.79	8-19
29	C4:0; Butyric acid	SMSLA/GM/SOP/01	g/100g	1.77	1-5
30	C6:0; Caproic acid	SMSLA/GM/SOP/01	g/100g	1.66	0.5-2.2
31	C8:0; Caprylic acid	SMSLA/GM/SOP/01	g/100g	0.94	0.4-1.5
<b>Sterols</b>					
32	Cholesterol	SMSLA/GM/SOP/02	mg/100g	233.84	--
<b>Trace Metal Elements</b>					
33	Sodium	SMSLA/IS/SOP/05	mg/100g	Nil	--
<b>Vitamins- Fat Soluble</b>					
34	Alpha Tocopherol (Vitamin E)	SMSLA/HC/SOP/28	mg/100g	2.8	--
35	Retinol (Vitamin A)	SMSLA/HC/SOP/28	IU/100g	3069.0	--
36	Vitamin D (D2+D3)	SMSLA/HC/SOP/28	mg/100g	98.12	--
37	Vitamin K (K1+K2)	SMSLA/HC/SOP/28	mcg/100g	8.6	--
<b>Vitamins- Water Soluble</b>					
38	Ascorbic acid (Vitamin C)	SMSLA/HC/SOP/27	mg/100g	BLQ(LOQ:0.50)	--
39	Cyanocobalamine (Vitamin B12)	SMSLA/HC/SOP/27	mg/100g	BLQ(LOQ:0.50)	--
<b>GC MS Screening</b>					
40	Phytosterols	SMSLA/GM/SOP/12	--	Absent	--
<b>Antioxidant</b>					
41	BHA	SMSLA/HC/SOP/26	mg/kg	BLQ(LOQ:10.0)	--

Remarks: The sample complies with the specification as per FSSR 2011, Amendment 2022 for the above tested parameters.  
Note: BLQ: Below Limit of Quantification; LOQ: Limit of Quantification. NMT: Not more than. NLT: Not less than

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

**K. PRAKASH**  
Senior Chemist

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