



SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT



TC-6118

ULR - TC611824000001799F
Report No : QFD24010298-02

Page 1 of 3
Report Date: 13 Jan 2024

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 1No
Sample Description : Raaj Ghee **Sample Received on** : 08 Jan 2024
Reference : Test Request Form Dated 04.01.2024 **Test Started on** : 08 Jan 2024
Sample Identification : Batch No: SGS, Pkd Date: 27/10/2023, **Test Completed on** : 13 Jan 2024
Exp Date: 27/07/2024
Sample Drawn By : Customer

TEST RESULTS

| S.NO | Parameter | Test Method | Unit | Results | Requirement as per FSSR 2011 |
|---------------------------|--------------------------------------|------------------|-----------|---------------|------------------------------|
| Antioxidants | | | | | |
| 1 | BHA | SMSLA/HC/SOP/26 | mg/kg | BLQ(LOQ:10.0) | -- |
| Chemical | | | | | |
| 2 | Added Sugar | SMSLA/FD/SOP/019 | g/100g | Nil | -- |
| 3 | Baudouins Test | FSSAI Manual 1 | -- | Negative | Negative |
| 4 | Butyro Refractometer Reading at 40°C | FSSAI Manual 1 | -- | 42.3 | 40.0 - 44.0 |
| 5 | Total Carbohydrates | IS 1656 | g/100g | Nil | -- |
| 6 | Dietary Fibre | AOAC 985.29 | g/100g | Nil | -- |
| 7 | Energy | SMSLA/FD/SOP/011 | Kcal/100g | 897.93 | -- |
| 8 | Total Fat | FSSAI Manual 1 | g/100g | 99.77 | -- |
| 9 | Free Fatty Acid as Oleic acid | FSSAI Manual 1 | g/100g | 1.00 | NMT 2.0 |
| 10 | Iodine Value | IS 3508 | -- | 29.53 | 25-38 |
| 11 | Moisture | FSSAI Manual 1 | g/100g | 0.23 | NMT 0.5 |
| 12 | Peroxide value | FSSAI Manual 1 | meq/Kg | Nil | -- |
| 13 | Polenske value | FSSAI Manual 1 | -- | 1.26 | 0.5 -2.0 |
| 14 | Protein | AOAC 2001.11 | g/100g | Nil | -- |
| 15 | Reichert Meissel Value | FSSAI Manual 1 | -- | 28.52 | NLT 24.0 |
| 16 | Saponification Value | IS 3508 | mg KOH/g | 219.79 | 205-235 |
| 17 | Total Sugar | SMSLA/FD/SOP/019 | g/100g | Nil | -- |
| Fatty Acid Profile | | | | | |
| 18 | Omega 3 | SMSLA/GM/SOP/01 | g/100g | 1.47 | -- |


A. Kanagavel
Authorized Signatory-Chemical

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

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|---|--|-----------------|---------|----------------|------------------------------|
| 19 | Omega 6 | SMSLA/GM/SOP/01 | g/100g | 2.29 | -- |
| 20 | Trans Fat | SMSLA/GM/SOP/01 | g/100g | BLQ(LOQ:0.001) | -- |
| Fatty Acid Profile Mono-unsaturated Fatty Acids (MUFA's) | | | | | |
| 21 | C16:1; Palmitoleic acid | SMSLA/GM/SOP/01 | g/100g | 2.504 | 0.9-2.8 |
| 22 | C18:1; Oleic acid | SMSLA/GM/SOP/01 | g/100g | 21.870 | 19-32 |
| Fatty Acid Profile Polyunsaturated Fatty Acid (PUFA's) | | | | | |
| 23 | C18:2;Linoleic acid | SMSLA/GM/SOP/01 | g/100g | 1.058 | 0.5-3.5 |
| 24 | C18:3;Linolenic acid | SMSLA/GM/SOP/01 | g/100g | 0.918 | 0.3-1.0 |
| Fatty Acid Profile Saturated Fatty Acids | | | | | |
| 25 | C10:0; Capric acid | SMSLA/GM/SOP/01 | g/100g | 1.965 | 0.8- 5 |
| 26 | C12:0; Lauric acid | SMSLA/GM/SOP/01 | g/100g | 3.482 | 1.5 – 4 |
| 27 | C14:0; Myristic acid | SMSLA/GM/SOP/01 | g/100g | 12.292 | 6- 13 |
| 28 | C16:0; Palmitic acid | SMSLA/GM/SOP/01 | g/100g | 36.785 | 22-38 |
| 29 | C18:0; Stearic acid | SMSLA/GM/SOP/01 | g/100g | 14.267 | 8-19 |
| 30 | C4:0; Butyric acid | SMSLA/GM/SOP/01 | g/100g | 1.177 | 1 -5 |
| 31 | C6:0; Caproic acid | SMSLA/GM/SOP/01 | g/100g | 0.509 | 0.5 – 2.2 |
| 32 | C8:0; Caprylic acid | SMSLA/GM/SOP/01 | g/100g | 0.579 | 0.4 – 1.5 |
| Mycotoxins | | | | | |
| 33 | Aflatoxin M1 | SMSLA/HC/SOP/03 | µg/kg | BLQ(LOQ:0.50) | -- |
| Others - Cyanamides | | | | | |
| 34 | Melamine | SMSLA/LS/SOP/11 | mg/kg | BLQ(LOQ:0.01) | NMT 2.5 |
| Sterols | | | | | |
| 35 | Cholesterol | SMSLA/GM/SOP/02 | mg/100g | 319.86 | -- |
| Trace Metal Elements | | | | | |
| 36 | Arsenic | SMSLA/IS/SOP/02 | mg/kg | BLQ(LOQ:0.01) | NMT 1.1 |
| 37 | Lead | SMSLA/IS/SOP/02 | mg/kg | BLQ(LOQ:0.01) | NMT 0.02 |
| 38 | Methyl Mercury [Calculated as Element] | SMSLA/IS/SOP/02 | mg/kg | BLQ(LOQ:0.1) | NMT 0.25 |
| 39 | Sodium | SMSLA/IS/SOP/05 | mg/kg | BLQ(LOQ:5.0) | -- |

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|--------------------------------|-------------------------------|-----------------|----------|-----------------|------------------------------|
| Vitamins- Fat Soluble | | | | | |
| 40 | Alpha Tocopherol (Vitamin E) | SMSLA/LS/SOP/47 | mg/100g | 3.24 | -- |
| 41 | Cholecalciferol (Vitamin D3) | SMSLA/LS/SOP/47 | mg/100g | BLQ(LOQ:0.0005) | -- |
| 42 | Ergocalciferol (Vitamin D2) | SMSLA/LS/SOP/47 | mg/100g | BLQ(LOQ:0.0005) | -- |
| 43 | Menaquinone (Vitamin K2) | SMSLA/LS/SOP/47 | mcg/100g | BLQ(LOQ:0.0005) | -- |
| 44 | Phylloquinone (Vitamin K1) | SMSLA/LS/SOP/47 | mcg/100g | 9.11 | -- |
| 45 | Retinol (Vitamin A) | SMSLA/LS/SOP/47 | IU/100g | 2793.82 | -- |
| Vitamins- Water Soluble | | | | | |
| 46 | Ascorbic acid (Vitamin C) | SMSLA/LS/SOP/43 | mg/100g | BLQ(LOQ:0.001) | -- |
| 47 | Cyanocobalamine (Vitamin B12) | SMSLA/LS/SOP/43 | mg/100g | BLQ(LOQ:0.001) | -- |

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 *****/


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|------------------------|-----------------------------|-----------------|------|---------|------------------------------|
| GC MS Screening | | | | | |
| 1 | Phytosterols | SMSLA/GM/SOP/11 | -- | Absent | -- |
| Others | | | | | |
| 2 | Presence of Beta Sitosterol | SMSLA/HC/SOP/63 | -- | Absent | Absent |

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

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


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