



NAWaL Analytical Laboratories



T-1192 T-1615

Test Report

ISO / IEC 17025:2005 Accredited by NABL and BIS, FSSAI, APEDA, AGMARK & MoEF Recognized Lab

| | |
|-----------------------------------|---|
| REPORT NO. F/D/18/0105 | REPORT DATE: 17.04.2018 |
| Sample Described by the Customer | RAAJ TONED MILK CURD |
| Batch Coding & MFD & UBD | 252.D3 & 09.04.2018 & 22.04.2018 |
| Name of the Customer / Brand Name | M/s. A.R.DAIRY FOOD PRIVATE LIMITED / RAAJ |
| Address | 10/5C, Madurai Road, Begampur (Po), Dindigul, Tamilnadu, India-624 002 |
| Sample by | M/s. A.R.DAIRY FOOD PRIVATE LIMITED |
| Requested By / Designation | Mr.G.Kannan / Manager QC |
| Quantity of the Sample Received | 6 X 500g |
| Customer Reference | By letter Dated: 09.04.2018 |
| Date of Sample Receipt | 10.04.2018 |
| Date of Performance | 10.04.2018 to 16.04.2018 |

| S.NO | TEST PARAMETERS | TEST PROTOCOL | UNIT | TEST RESULTS | LIMITS AS PER FSSAI |
|----------------------------|--------------------|---------------------------------|-----------|--------------------------|---------------------|
| NUTRITIONAL VALUE | | | | | |
| 1 | Energy | NAL/CHL/SOP/F017 | Kcal/100g | 63.11 | - |
| 2 | Carbohydrate | NAL/CHL/SOP/F016 | g/100g | 5.38 | - |
| 3 | Protein (N X 6.38) | IS 7219-1973 (RA-2015) | g/100g | 3.58 | - |
| 4 | Fat | IS 1479 (Part-2),1961 (RA-2018) | % | 3.03 | - |
| PHYSICAL PARAMETERS | | | | | |
| 5 | Appearance* | Visual Examination | - | White Colours semi solid | - |
| 6 | Colour | | - | White Colour | - |
| 7 | Foreign Matter | IS 1479 (Part-1),2016 | - | Absent | - |
| 8 | Taste* | Organoleptic Analysis | - | Characteristic | - |
| 9 | Odour* | | - | Characteristic | - |
| CHEMICAL PARAMETERS | | | | | |
| 10 | Solid not fat | IS 1479 (Part-2),1961 (RA-2018) | g/100g | 9.54 | - |
| 11 | Sugar as Sucrose | | g/100g | BDL(DL-0.5) | - |
| ADULTERANTS | | | | | |
| 12 | Can sugar | IS 1479 (Part-1),2016 | - | Negative | Negative |
| 13 | Starch | | - | Negative | Negative |
| 14 | Cellulose | NAL/CHL/SOP/F012 | - | Negative | Negative |
| 15 | Added Urea | IS 1479 (Part-1),2016 | - | Negative | Negative |
| 16 | Ammonium Compounds | | - | Negative | Negative |
| 17 | Sulphates | NAL/CHL/SOP/F012 | - | Negative | Negative |
| 18 | Added Glucose | | - | Negative | Negative |
| 19 | Sodium Chloride | | - | Negative | Negative |
| 20 | Saccharin | NAL/CHL/SOP/F002 | - | Negative | Negative |

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REPORT NO. F/D/18/0103

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| S.NO | TEST PARAMETERS | TEST PROTOCOL | UNIT | TEST RESULTS | LIMITS AS PER FSSAI |
|---|--------------------------------------|---|--------|---------------|---------------------|
| 21 | Dulcin | NAL/CHL/SOP/F002 | - | Negative | Negative |
| 22 | Nitrates | IS 1479 (Part-1),2016 | - | Negative | Negative |
| 23 | Neutralizers | | - | Negative | Negative |
| 24 | Hypochloride* | FSSAI Lab Manual-1 1.2.12 | - | Negative | Negative |
| 25 | Chloramines* | | - | Negative | Negative |
| 26 | QAC (Quaternary Ammonium Compounds)* | FSSAI Lab Manual-1 1.2.13 | - | Negative | Negative |
| 27 | Anionic Compounds | FSSAI Lab Manual-1 1.2.14 | - | Negative | Negative |
| 28 | Gelatin* | FSSAI Lab Manual-1 1.2.16 | - | Negative | Negative |
| 29 | Formalin | IS 1479 (Part-1),2016 | - | Negative | Negative |
| 30 | Hydrogen Peroxide (Quantitative) | | - | Negative | Negative |
| 31 | Boric Acid | NAL/CHL/SOP/F012 | - | Negative | Negative |
| 32 | Borates | | - | Negative | Negative |
| HEAVY METALS | | | | | |
| 33 | Lead as Pb | AOAC (20 th Edition) 999.11, 2016 | mg /kg | BDL[DL-0.01] | Max 2.5 |
| 34 | Copper as Cu | AOAC (20 th Edition) 999.11, 2016 | mg /kg | BDL[DL-0.25] | Max 30.0 |
| 35 | Arsenic as As | AOAC (20 th Edition) 963.21, 2016 | mg /kg | BDL[DL-0.02] | Max 1.1 |
| 36 | Mercury as Hg | AOAC (20 th Edition) 971.21, 2016 | mg /kg | BDL[DL-0.02] | Max 1.0 |
| 37 | Tin as Sn | AOAC (20 th Edition) 980.19, 2016 | mg /kg | BDL[DL-2.5] | Max 250.0 |
| 38 | Cadmium as Cd | AOAC (20 th Edition) 2016.19, 2012 | mg /kg | BDL[DL-0.025] | Max 1.5 |
| 39 | Methyl Mercury as CH ₃ Hg | AOAC (20 th Edition) 2016, 983.20 | mg /kg | BDL[DL-0.01] | Max 0.25 |
| OTHER CONTAMINATES | | | | | |
| 40 | Melamine | IS 16195,2014 | mg/kg | BDL[DL-0.001] | Max 2.5 |
| TOXIN | | | | | |
| 41 | Aflatoxin M1 | AOAC 19 th Edn 2012, 2000.8 Ch-49 | µg /kg | BDL[DL-0.1] | Max 0.5 |
| NATURALLY OCCURRING TOXIC SUBSTANCES | | | | | |
| 42 | Agaric acid | NAL/SOP/F/237 | mg /kg | BDL[DL-10.0] | Max 100 |
| 43 | Hypericine | NAL/SOP/F/235 | mg /kg | BDL[DL-0.25] | Max 1.0 |
| 44 | Saffrole | NAL/SOP/F/236 | mg /kg | BDL[DL-1.0] | Max 10.0 |
| 45 | Hydrocyanic Acid | AOAC 19 th Edn,2012 915.03 | mg /kg | BDL[DL-1.0] | Max 5.0 |

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|--|--|-----------------|--------------|--------------|---------------------|
| PESTICIDES | | | | | |
| 46 | Aldrin | NAL/SOP/INS/003 | mg /kg | BDL[DL-0.01] | Max 0.15 |
| 47 | Dieldrin | | mg /kg | BDL[DL-0.01] | Max 0.15 |
| 48 | 2,4'-DDD | | mg /kg | BDL[DL-0.01] | Max 1.25 |
| 49 | 2,4'-DDE | | mg /kg | BDL[DL-0.01] | Max 1.25 |
| 50 | 2,4'-DDT | | mg /kg | BDL[DL-0.01] | Max 1.25 |
| 51 | 4,4'-DDD | | mg /kg | BDL[DL-0.01] | Max 1.25 |
| 52 | 4,4'-DDE | | mg /kg | BDL[DL-0.01] | Max 1.25 |
| 53 | 4,4'-DDT | | mg /kg | BDL[DL-0.01] | Max 1.25 |
| 54 | Endosulfan Sulfate | | mg /kg | BDL[DL-0.01] | - |
| 55 | Alpha-Endosulfan | | mg /kg | BDL[DL-0.01] | - |
| 56 | Beta-Endosulfan | | mg /kg | BDL[DL-0.01] | - |
| 57 | Alpha-HCH | | mg /kg | BDL[DL-0.01] | - |
| 58 | Beta-HCH | | mg /kg | BDL[DL-0.01] | - |
| 59 | Delta-HCH | | mg /kg | BDL[DL-0.01] | - |
| 60 | Heptachlor | | mg /kg | BDL[DL-0.01] | Max 0.15 |
| 61 | Heptachlor epoxide isomer | | mg /kg | BDL[DL-0.01] | - |
| 62 | Lindane | mg /kg | BDL[DL-0.01] | - | |
| 63 | Hexachlorobenzene | mg /kg | BDL[DL-0.01] | - | |
| PESTICIDES (OP) ORGANOPHOPHORUS | | | | | |
| 64 | Chlorfenvinphos Mixture of Cis and Trans | NAL/SOP/INS/003 | mg /kg | BDL[DL-0.01] | Max 0.2 |
| 65 | Chlorpyrifos | | mg /kg | BDL[DL-0.01] | Max 0.01 |
| 66 | Ethion | | mg /kg | BDL[DL-0.01] | Max 0.5 |
| 67 | Malaoxon | | mg /kg | BDL[DL-0.01] | - |
| 68 | Malathion | | mg /kg | BDL[DL-0.01] | - |
| 69 | Monocrotophos | | mg /kg | BDL[DL-0.01] | Max 0.02 |
| 70 | Parathion | | mg /kg | BDL[DL-0.01] | - |

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|------------------------------|------------------------|--------------------|-----------------------|--------------|---------------------|
| 71 | Parathion Methyl | NAL/SOP/INS/003 | mg /kg | BDL[DL-0.01] | - |
| 72 | Parothon Methyl | | mg /kg | BDL[DL-0.01] | - |
| 73 | Phorate | | mg /kg | BDL[DL-0.01] | Max 0.05 |
| 74 | Phorate Sulphoxide | | mg /kg | BDL[DL-0.01] | Max 0.05 |
| 75 | Phorate Sufone | | mg /kg | BDL[DL-0.01] | Max 0.05 |
| BIOLOGICAL PARAMETERS | | | | | |
| 76 | Total Bacterial Count | IS 5402:2012 | Cfu/g | 12000 | - |
| 77 | Yeast & Mold Count | IS 5403, 1999 | Cfu/g | <10 | Max 50/g |
| 78 | Escherichia Coli | IS 5887(P-01).1976 | Present(or)Absent/g | Absent | Absent/g |
| 79 | Coli form | IS 5401(P-01).2012 | Cfu/g | <10 | Max 10/g |
| 80 | Staphylococcus aureus | IS 5887(P-02).1976 | Present(or)Absent/25g | Absent | Max 50/g |
| 81 | Salmonella | IS 5887(P-03).1999 | Present(or)Absent/25g | Absent | Absent/25g |
| 82 | Listeria Monocytogenes | RAM Chapter-10 | Present(or)Absent/25g | Absent | Absent/g |

Note: All the above Tested Parameters are carried out with the sample "as received condition". BDL: Indicates Below Detectable Limits.

The test marked with an * are not accredited by NABL.

Blue
Authorized Signatory

N. Bhavani
Dy. Technical Manager (Biological)



For NAWaL Analytical Laboratories

D. Balakrishnan
Authorized Signatory

D. Balakrishnan
(Head Lab)