



# NAWaL Analytical Laboratories

## Test Report

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

REPORT NO. F/E/18/0240 REPORT DATE: 10.05.2018

Sample Described by the Customer : RAAJ LEAN DOUBLE TONED MILK  
 Batch Coding & MFD & UBD : VDV.A3 & 02.MAY.18 & 05.MAY.18  
 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 : 5 X 1 Ltr  
 Customer Reference : By letter Dated: 02.05.2018  
 Date of Sample Receipt : 04.05.2018  
 Date of Performance : 04.05.2018 to 09.05.2018

S.NO	TEST PARAMETERS	TEST PROTOCOL	UNIT	TEST RESULTS	LIMITS AS PER FSSAI
<b>NUTRITIONAL VALUE</b>					
1	Energy	NAL/CHL/SOP/F017	Kcal/100ml	48.62	-
2	Carbohydrate	NAL/CHL/SOP/F016	g/100ml	5.34	-
3	Protein (N X 6.38)	IS 7219-1973 (RA-2015)	g/100ml	3.56	-
4	Fat	IS 1479 (Part-2),1961 (RA-2018)	%	1.50	Min 1.5
<b>PHYSICAL PARAMETERS</b>					
5	Appearance*	Visual Examination	-	White Colours Liquid	-
6	Colour		-	White Colour	-
7	Foreign Matter	IS 1479 (Part-1):2016	-	Absent	-
8	Taste*	Organoleptic Analysis	-	Characteristic	-
9	Odour*		-	Characteristic	-
<b>CHEMICAL PARAMETERS</b>					
10	Solid not fat	IS 1479 (Part-2),1961 (RA-2018)	g/100ml	9.51	Min 9.0
11	Sugar as Sucrose		g/100ml	BDL[DL-0.5]	-
<b>ADULTERANTS</b>					
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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Plot No. 100, New Sidco Industrial Estate, Sri Nagar, Hosur - 635 109, Tamil Nadu.

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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
<b>HEAVY METALS</b>					
33	Lead as Pb	AOAC (20 <sup>th</sup> Edition) 999.11. 2016	mg/l	BDL[DL-0.01]	Max 2.5
34	Copper as Cu	AOAC (20 <sup>th</sup> Edition) 999.11. 2016	mg/l	BDL[DL-0.25]	Max 30.0
35	Arsenic as As	AOAC (20 <sup>th</sup> Edition) 963.21. 2016	mg/l	BDL[DL-0.02]	Max 0.1
36	Mercury as Hg	AOAC (20 <sup>th</sup> Edition) 971.21. 2016	mg/l	BDL[DL-0.02]	Max 1.0
37	Tin as Sn	AOAC (20 <sup>th</sup> Edition) 980.19. 2016	mg/l	BDL[DL-2.5]	Max 250.0
38	Cadmium as Cd	AOAC (20 <sup>th</sup> Edition) 2016.19. 2012	mg/l	BDL[DL-0.025]	Max 1.5
39	Methyl Mercury as CH <sub>3</sub> Hg	AOAC (20 <sup>th</sup> Edition) 2016. 983.20	mg/l	BDL[DL-0.01]	Max 0.25
<b>OTHER CONTAMINATES</b>					
40	Melamine	IS 16195.2014	mg/l	BDL[DL-0.001]	Max 2.5
<b>TOXIN</b>					
41	Aflatoxin M1	AOAC 19 <sup>th</sup> Edn 2012. 2000.8 Ch-49	µg /l	BDL[DL-0.1]	Max 0.5
<b>NATURALLY OCCURRING TOXIC SUBSTANCES</b>					
42	Agaric acid	NAL/SOP/F/237	mg/l	BDL[DL-10.0]	Max 100
43	Hypericine	NAL/SOP/F/235	mg/l	BDL[DL-0.25]	Max 1.0
44	Saffrole	NAL/SOP/F/236	mg/l	BDL[DL-1.0]	Max 10.0
45	Hydrocyanic Acid	AOAC 19 <sup>th</sup> Edn.2012 915.03	mg/l	BDL[DL-1.0]	Max 5.0

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

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71	Parathion Methyl	NAL/SOP/INS/003	mg/l	BDL[DL-0.01]	-
72	Paraoxon Methyl		mg/l	BDL[DL-0.01]	-
73	Phorate		mg/l	BDL[DL-0.01]	Max 0.05
74	Phorate Sulphoxide		mg/l	BDL[DL-0.01]	Max 0.05
75	Phorate Sufone		mg/l	BDL[DL-0.01]	Max 0.05
<b>BIOLOGICAL PARAMETERS</b>					
76	Total Bacterial Count*	IS 5402:2012	Cfu/ml	720	Max 30,000/ml
77	Yeast & Mould Count	IS 5403: 1999	Cfu/ml	<1	-
78	Escherichia Coli	IS 5887(P-01):1976	Present(or)Absent/ml	Absent	Absent/ml
79	Coliform	IS 5401(P-01):2012	Cfu/ml	<1	-
80	Staphylococcus aureus	IS 5887(P-02):1976	Present(or)Absent/25ml	Absent	-
81	Salmonella	IS 5887(P-03):1999	Present(or)Absent/25ml	Absent	Absent/25ml
82	Listeria Monocytogenes	BAM Chapter-10	Present(or)Absent/25ml	Absent	Absent/ml

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

The tests marked with an \* are not accredited by NABL.

  
Authorised Signatory

**N. Bhavani**  
Dy. Technical Manager (Biological)



For NAWaL Analytical Laboratories

  
Authorised Signatory

**D. Balakrishnan**  
(Head Lab)