



NAWaL Analytical Laboratories



Test Report

T-1192 T-1615

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

REPORT NO. F/K/17/1859	REPORT DATE: 24.11.2017
Sample Described by the Customer	RAAJ DOUBLE TONED LEAN MILK
Batch Coding & MFD & UBP	LMS.A3 & 17 NOV 2017 7 20 NOV 2017
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:17.11.2017
Date of Sample Receipt	18.11.2017
Date of Performance	18.11.2017 to 23.11.2017

S.NO	TEST PARAMETERS	TEST PROTOCOL	UNIT	TEST RESULTS	LIMITS AS PER FSSAI
CHEMICAL PARAMETERS					
1	Energy	NAL/SOP/FOOD/017	Kcal/100ml	50.68	-
2	Milk Fat	AOAC 19 th Edn 2012.989.05	%	1.60	Min 1.5
3	Milk Protein (N X 6.38)	IS 7219:1973 RA-2015	%	3.45	-
4	Carbohydrate	NAL/SOP/F/016	g/100ml	5.62	-
5	Sodium as Na	IS 9497:1980 (RA-2015)	mg/100ml	48.0	-
6	Potassium as k		mg/100ml	165.61	-
7	Calcium as Ca	5949:1990 RA-2015	mg/100ml	119.0	-
8	Milk SNF	AOAC 19 th Edn 2012.990.21	%	9.15	Min 9.0
ADULTERATION TEST					
9	Water*	Food Instruction Manual - [P-1]	-	Present	Present
10	Starch		-	Absent	Absent
11	Urea		-	Absent	Absent
12	Vanaspathi*		-	Absent	Absent
13	Formalin		-	Absent	Absent
14	Detergent*		-	Absent	Absent
HEAVY METALS					
15	Lead as Pb	AOAC 19 th Edn-2012.999.11	mg/l	BDL[DL-0.25]	Max 2.5
16	Copper as Cu	AOAC 19 th Edn-2012.999.11	mg/l	0.91	Max 30.0
17	Arsenic as As	AOAC 19 th Edn-2012.963.21	mg/l	BDL[DL-0.02]	Max 0.1
18	Tin as Sn	AOAC 19 th Edn-2012.980.19	mg/l	BDL[DL-2.5]	Max 250.0
19	Mercury as Hg	AOAC 19 th Edn-2012.971.21	mg/l	BDL[DL-0.02]	Max 1.0
20	Cadmium as Cd	AOAC 19 th Edn-2012.999.11	mg/l	BDL[DL-0.10]	Max 1.5
21	Chromium as Cr	AOAC 19 th Edn 2012-2011.19	mg/l	BDL[DL-0.25]	-
22	Nickel as Ni	AOAC 19 th Edn 2012-975.34	mg/l	BDL[DL-0.25]	-

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FATTY ACID PROFILE					
23	Cholesterol	NAL/SOP/INS/002	mg/100ml	7.7	-
DRUG ANTIBIOTICS					
24	Chloramphenicol	NAL/SOP/INS/009	mg/l	BDL[DL- 0.000075]	Max 0.01
OTHER CONTAMINATES					
25	Melamine	IS 16195:2014	mg/l	BDL[DL-0.001]	Max 0.05
TOXIN					
26	Aflatoxin M1	AOAC 19 th Edn 2012, 2000 S Ch-49	µg/l	BDL[DL-0.1]	Max 0.5
NATURALLY OCCURRING TOXIC SUBSTANCES					
27	Agaric acid	NAL/SOP/F/237	mg/l	BDL[DL-10.0]	Max 100
28	Hypericine	NAL/SOP/F/235	mg/l	BDL[DL-0.25]	Max 1.0
29	Saffrole	NAL/SOP/F/236	mg/l	BDL[DL-1.0]	Max 10.0
30	Hydrocyanic Acid	AOAC 19 th Edn.2012 915.03	mg/l	BDL[DL-1.0]	Max 5.0
NITROFURAN METABOLITES					
31	AMOZ	NAL/SOP/INS/011	mg/l	BDL[DL- 0.0005]	-
32	AOZ		mg/l	BDL[DL- 0.0005]	-
33	AHD		mg/l	BDL[DL- 0.0005]	-
34	SEM		mg/l	BDL[DL- 0.0005]	-
SULFONAMIDES					
35	Sulfamethoxazole	NAL/SOP/INS/012	mg/l	BDL[DL-0.01]	-
36	Sulfanilamide		mg/l	BDL[DL-0.01]	Max 0.01
37	Sulfamerazine		mg/l	BDL[DL-0.01]	-
38	Sulfadimethoxine		mg/l	BDL[DL-0.01]	-
39	Sulfapyridine		mg/l	BDL[DL-0.01]	-
40	Sulfamethazine		mg/l	BDL[DL-0.01]	-
41	Sulfamethoxypyridazine		mg/l	BDL[DL-0.01]	-
42	Sulfadiazine		mg/l	BDL[DL-0.01]	Max 0.01

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PESTICIDE RESIDUES (ORGANO CHLORINE & ORGANO PHOSPHORUS)					
43	Aldrin	NAL/SOP/INS/003	mg/l	BDL[DL-0.01]	Max 0.15
44	Dieldrin		mg/l	BDL[DL-0.01]	Max 0.15
45	Cis Chlordane		mg/l	BDL[DL-0.01]	Max 0.05
46	Trans Chlordane		mg/l	BDL[DL-0.01]	Max 0.05
47	o,p'-DDE		mg/l	BDL[DL-0.01]	Max 1.25
48	p,p'-DDT		mg/l	BDL[DL-0.01]	Max 1.25
49	o,p'-DDD		mg/l	BDL[DL-0.01]	Max 1.25
50	p,p'-DDD		mg/l	BDL[DL-0.01]	Max 1.25
51	o,p'-DDE		mg/l	BDL[DL-0.01]	Max 1.25
52	p,p'-DDE		mg/l	BDL[DL-0.01]	Max 1.25
53	Heptachlor Epoxide		mg/l	BDL[DL-0.01]	Max 0.15
54	Alfa (α) Isomer.HCH		mg/l	BDL[DL-0.01]	Max 0.05
55	Beta (β) Isomer.HCH		mg/l	BDL[DL-0.01]	Max 0.02
56	Gamma (γ) Isomer.HCH		mg/l	BDL[DL-0.01]	Max 0.01
57	Delta (δ) Isomer.HCH		mg/l	BDL[DL-0.01]	Max 0.02
58	Chlorfenvinphos		mg/l	BDL[DL-0.01]	Max 0.2
59	Chlorpyrifos		mg/l	BDL[DL-0.01]	Max 0.01
60	2,4 D		mg/l	BDL[DL-0.01]	Max 0.05
61	Ethion		mg/l	BDL[DL-0.01]	Max 0.5
62	Monocrotophos		mg/l	BDL[DL-0.01]	Max 0.02
63	Carbendazim		mg/l	BDL[DL-0.01]	Max 0.10
64	Benomyl		mg/l	BDL[DL-0.01]	Max 0.10
65	3-Hydroxy Carbofuran		mg/l	BDL[DL-0.01]	Max 0.05
66	Cypermethrin		mg/l	BDL[DL-0.01]	Max 0.01
67	Edifenphos		mg/l	BDL[DL-0.01]	Max 0.01
68	Paraquat-Dichloride		mg/l	BDL[DL-0.01]	Max 0.01
69	Trichlorfon		mg/l	BDL[DL-0.01]	Max 0.05

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70	Fenthion Sulphoxide	NAL/SOP/INS/003	mg /l	BDL[DL-0.01]	Max 0.05
71	Fenthion Sulphone		mg /l	BDL[DL-0.01]	Max 0.05
72	Fenvalerate		mg /l	BDL[DL-0.01]	Max 0.01
73	Phenthoate		mg /l	BDL[DL-0.01]	Max 0.01
74	Phorate Sulphoxide		mg /l	BDL[DL-0.01]	Max 0.05
75	Phorate Sulphone		mg /l	BDL[DL-0.01]	Max 0.05
76	Pirimiphos-Methyl		mg /l	BDL[DL-0.01]	Max 0.05
BIOLOGICAL PARAMETERS					
77	Total Bacterial Count	IS 5402:2012	Cfu/ml	620	50,000/ml
78	Coliform	IS 5401(P-01):2012	Cfu/ml	<1	Less than 10/ml
79	Escherichia coli	IS 5887(P-01):1976	Present(or)Absent/ml	Absent	Absent/ml
80	Salmonella	IS 5887(P-03):1999	Present(or)Absent/25ml	Absent	Absent/25ml
81	Shigella	IS 5887(P-07):1999	Present(or)Absent/25ml	Absent	-
82	Staphylococcus aureus	IS 5887(P-02):1976	Cfu/ml	<1	Less than 10/ml
83	Total Yeast & mould	IS 5403:1999	Cfu/ml	<1	-
84	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)