



NAWaL Analytical Laboratories

Test Report

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	LMSA3 & 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-I]	-	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-0.25]	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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FAITY 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, 2000.8 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	AMAZ	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	Sulfamylamide		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'-DDT		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	Paraniphos-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 3887(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.


Authorized Signatory

N. BHAVANI
Dy. Technical Manager (Biological)



For NAWaL Analytical Laboratories


Authorized Signatory

D. BALAKRISHNAN
(HEAD - LAB)