



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/L/17/1974	REPORT DATE: 18.12.2017
Sample Described by the Customer	RAAJ FULL COMMERCIAL MILK
Batch Coding & MWD & LBP	GBLFI & 06 DEC 2017 & 09 DEC 2017
Name of the Customer / Brand Name	M/s. A.R.DAIRY FOOD PRIVATE LIMITED / RAAJ
Address	10/3C, 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 Lit
Customer Reference	By letter Dated:06.12.2017
Date of Sample Receipt	11.12.2017
Date of Performance	11.12.2017 to 16.12.2017

S.NO	TEST PARAMETERS	TEST PROTOCOL	UNIT	TEST RESULTS	LIMITS AS PER FSSAI
CHEMICAL PARAMETERS					
1	Energy	NAL/SOP/FOOD/017	Kcal/100ml	80.62	-
2	Milk Fat	AOAC 19 th Edn 2012.989.05	%	5.18	-
3	Milk Protein (N X 6.38)	IS 7219:1973 RA-2015	%	3.39	-
4	Carbohydrate	NAL/SOP/F/016	g/100ml	5.11	-
5	Sodium as Na	IS 9497:1980 (RA-2015)	mg/100ml	49.80	-
6	Potassium as k		mg/100ml	120.6	-
7	Calcium as Ca	5949:1990 RA-2015	mg/100ml	129.99	-
8	Milk SNF	AOAC 19 th Edn 2012.990.21	%	9.03	-
ADULTERATION TEST					
9	Water*	NAL/SOP/FOOD/12	-	Present	Present
10	Starch		-	Absent	Absent
11	Urea		-	Absent	Absent
12	Vanaspatti*		-	Absent	Absent
13	Formalin		-	Absent	Absent
14	Detergent*		-	Absent	Absent
15	Sugar		-	Absent	Absent
16	Maltodextrin*	NAL/SOP/FOOD/012	-	Absent	Absent
17	Sodium Chloride		-	Absent	Absent
HEAVY METALS					
18	Lead as Pb	AOAC 19 th Edn-2012.999.11	mg/l	BDL[DL-0.25]	Max 2.5
19	Copper as Cu	AOAC 19 th Edn-2012.999.11	mg/l	BDL[DL-0.25]	Max 30.0
20	Arsenic as As	AOAC 19 th Edn-2012.963.21	mg/l	BDL[DL-0.02]	Max 0.1
21	Tin as Sn	AOAC 19 th Edn-2012.980.19	mg/l	BDL[DL-2.5]	Max 250.0
22	Mercury as Hg	AOAC 19 th Edn-2012.971.21	mg/l	BDL[DL-0.02]	Max 1.0
23	Cadmium as Cd	AOAC 19 th Edn-2012.999.11	mg/l	BDL[DL-0.10]	Max 1.5
24	Chromium as Cr	AOAC 19 th Edn 2012-2011.19	mg/l	BDL[DL-0.25]	-
25	Nickel as Ni	AOAC 19 th Edn 2012-973.34	mg/l	BDL[DL-0.25]	-

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PRESEVATIVES					
26	Hydrogen Peroxide	NAL/SOP/FOOD/012	-	Absent	Absent
27	SO ₂	AOAC 19 th Edn 2012 990.2S	mg/l	BDL[DL-10.0]	-
28	Sorbic Acid	NAL/SOP/INS/036	mg/l	BDL[DL-5.0]	-
29	Benzoic Acid		mg/l	BDL[DL-10.0]	-
FATTY ACID PROFILE					
30	Cholesterol	NAL/SOP/INS/002	mg/100ml	7.7	-
DRUG ANTIBIOTICS					
31	Chloramphenicol	NAL/SOP/INS/009	mg/l	BDL[DL-0.000075]	Max 0.01
OTHER CONTAMINATES					
32	Melamine	IS 16195:2014	mg/l	BDL[DL-0.001]	Max 2.5
TOXIN					
33	Aflatoxin M1	AOAC 19 th Edn 2012: 2000.8 Ch-49	µg/l	BDL[DL-0.1]	Max 0.5
NATURALLY OCCURRING TOXIC SUBSTANCES					
34	Agaric acid	NAL/SOP/F/237	mg/l	BDL[DL-10.0]	Max 100
35	Hypericine	NAL/SOP/F/235	mg/l	BDL[DL-0.25]	Max 1.0
36	Saffrole	NAL/SOP/F/236	mg/l	BDL[DL-1.0]	Max 10.0
37	Hydrocyanic Acid	AOAC 19 th Edn.2012 915.03	mg/l	BDL[DL-1.0]	Max 5.0
NITROFURAN METABOLITES					
38	AMOZ	NAL/SOP/INS/011	mg/l	BDL[DL-0.0005]	-
39	AOZ		mg/l	BDL[DL-0.0005]	-
40	AHD		mg/l	BDL[DL-0.0005]	-
41	SEM		mg/l	BDL[DL-0.0005]	-
SULFONAMIDES					
42	Sulfamethoxazole	NAL/SOP/INS/012	mg/l	BDL[DL-0.01]	-
43	Sulfanilamide		mg/l	BDL[DL-0.01]	Max 0.01
44	Sulfamerazine		mg/l	BDL[DL-0.01]	-
45	Sulfadimethoxine		mg/l	BDL[DL-0.01]	-
46	Sulfapyridine		mg/l	BDL[DL-0.01]	-
47	Sulfamethazine		mg/l	BDL[DL-0.01]	-
48	Sulfamethoxypyridazine		mg/l	BDL[DL-0.01]	-
49	Sulfadiazine		mg/l	BDL[DL-0.01]	Max 0.01

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PESTICIDE RESIDUES (ORGANO CHLORINE & ORGANO PHOSPHORUS)					
50	Aldrin	NAL/SOP/INS/003	mg/l	BDL[DL-0.01]	Max 0.15
51	Dieldrin		mg/l	BDL[DL-0.01]	Max 0.15
52	Cis Chlordane		mg/l	BDL[DL-0.01]	Max 0.05
53	Trans Chlordane		mg/l	BDL[DL-0.01]	Max 0.05
54	o,p'-DDT		mg/l	BDL[DL-0.01]	Max 1.25
55	p,p'-DDT		mg/l	BDL[DL-0.01]	Max 1.25
56	o,p'-DDD		mg/l	BDL[DL-0.01]	Max 1.25
57	p,p'-DDD		mg/l	BDL[DL-0.01]	Max 1.25
58	o,p'-DDE		mg/l	BDL[DL-0.01]	Max 1.25
59	p,p'-DDE		mg/l	BDL[DL-0.01]	Max 1.25
60	Heptachlor Epoxide		mg/l	BDL[DL-0.01]	Max 0.15
61	Alfa (α) Isomer:HCH		mg/l	BDL[DL-0.01]	Max 0.05
62	Beta (β) Isomer:HCH		mg/l	BDL[DL-0.01]	Max 0.02
63	Gamma (γ) Isomer:HCH		mg/l	BDL[DL-0.01]	Max 0.01
64	Delta (δ) Isomer:HCH		mg/l	BDL[DL-0.01]	Max 0.02
65	Chlorfenvinphos		mg/l	BDL[DL-0.01]	Max 0.2
66	Chlorpyrifos		mg/l	BDL[DL-0.01]	Max 0.01
67	2,4-D		mg/l	BDL[DL-0.01]	Max 0.05
68	Ethion		mg/l	BDL[DL-0.01]	Max 0.5
69	Monocrotophos		mg/l	BDL[DL-0.01]	Max 0.02
70	Carbendazim		mg/l	BDL[DL-0.01]	Max 0.10
71	Benomyl		mg/l	BDL[DL-0.01]	Max 0.10
72	3-Hydroxy Carbosulfan		mg/l	BDL[DL-0.01]	Max 0.05
73	Cypermethrin		mg/l	BDL[DL-0.01]	Max 0.01
74	Edifenphos		mg/l	BDL[DL-0.01]	Max 0.01
75	Proaqual-Dicloride		mg/l	BDL[DL-0.01]	Max 0.01
76	Trichlorfon	mg/l	BDL[DL-0.01]	Max 0.05	

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77	Fenthion Sulphoxide	NAL/SOP/INS/003	mg/l	BDL[DL-0.01]	Max 0.05
78	Fenthion Sulphone		mg/l	BDL[DL-0.01]	Max 0.05
79	Fenvalerate		mg/l	BDL[DL-0.01]	Max 0.01
80	Phenthoate		mg/l	BDL[DL-0.01]	Max 0.01
81	Phorate Sulphoxide		mg/l	BDL[DL-0.01]	Max 0.05
82	Phorate Sulphone		mg/l	BDL[DL-0.01]	Max 0.05
83	Phosphos-Methyl		mg/l	BDL[DL-0.01]	Max 0.05

BIOLOGICAL PARAMETERS

84	Total Bacterial Count	IS 5402:2012	Cfu/ml	690	50,000/ml
85	Coliform	IS 5401(P-01):2012	Cfu/ml	<1	Less than 10/ml
86	Escherichia coli	IS 5887(P-01):1976	Present(or)Absent/ml	Absent	Absent/ml
87	Salmonella	IS 5887(P-03):1999	Present(or)Absent/25ml	Absent	Absent/25ml
88	Shigella	IS 5887(P-07):1999	Present(or)Absent/25ml	Absent	-
89	Staphylococcus aureus	IS 5887(P-02):1976	Cfu/ml	<1	Less than 10/ml
90	Total Yeast & mould	IS 5403:1999	Cfu/ml	<1	-
91	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)