



# NAWaL Analytical Laboratories



## Test Report

T-2292 T-1615

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

REPORT NO: F/C/18/2945 REPORT DATE: 22.03.2018

Sample Described by the Customer : PASTEURIZED BUTTER  
 Batch Coding & D.O.P : R.I.P & 15.03.2018  
 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 : 4 X 500g  
 Customer Reference : By letter Dated.15.03.2018  
 Date of Sample Receipt : 16.03.2018  
 Date of Performance : 16.03.2018 to 21.03.2018

S.NO	TEST PARAMETERS	TEST PROTOCOL	UNIT	TEST RESULTS	LIMITS AS PER FSSAI
<b>CHEMICAL PARAMETERS</b>					
1	Carbohydrate	NAL/SOP/F/016	g/100g	3.93	-
2	Energy	NAL/SOP/FOOD/017	Kcal/100g	745.12	-
3	Fat	IS 3507.1966 (RA-2012)	%	80.76	Min 80.0
4	Solid Not Fat (SNF)	AOAC 19 <sup>th</sup> Edn 2012.990.21	%	5.25	Max 2.0
5	Milk Protein (N X 6.38)	IS 7219.1973 RA-2015	%	0.64	-
6	Sulfites as SO <sub>2</sub>	AOAC 19 <sup>th</sup> Edn 2012.990.28	mg/kg	BDL[DL-10.0]	-
7	BR Reading@40°C		-	41.5	-
8	Peroxide Value	IS 3508.1966 (RA-2012)	-	Absent	-
9	Free Fatty Acid as Oleic acid		g/100g	0.28	-
10	Acidity as Lactic Acid		g/100g	0.05	-
<b>ADULTERATION TEST</b>					
11	Water*	NAL/SOP/FOOD/12	-	Absent	Absent
12	Starch		-	Negative	Negative
13	Urea		-	Negative	Negative
14	Vanaspathi*		-	Negative	Negative
15	Formalin		-	Negative	Negative
16	Detergent*		-	Negative	Negative
17	Sugar		-	Negative	Negative
18	Maltodextrin*		-	Negative	Negative
19	Sodium Chloride		-	Negative	Negative
<b>HEAVY METALS</b>					
20	Lead as Pb	AOAC 19 <sup>th</sup> Edn-2012.999.11	mg/kg	BDL[DL-0.25]	Max 2.5
21	Copper as Cu	AOAC 19 <sup>th</sup> Edn-2012.999.11	mg/kg	BDL[DL-0.25]	Max 30.0
22	Arsenic as As	AOAC 19 <sup>th</sup> Edn-2012.963.21	mg/kg	BDL[DL-0.02]	Max 1.1
23	Tin as Sn	AOAC 19 <sup>th</sup> Edn-2012.980.19	mg/kg	BDL[DL-2.5]	Max 250.0

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24	Mercury as Hg	AOAC 19 <sup>th</sup> Edn-2012,971.21	mg/kg	BDL[DL-0.02]	Max 1.0
25	Cadmium as Cd	AOAC 19 <sup>th</sup> Edn-2012,999.11	mg/kg	BDL[DL-0.10]	Max 1.5
26	Chromium as Cr	AOAC 19 <sup>th</sup> Edn 2012-2011.19	mg/kg	BDL[DL-0.25]	-
27	Nickel as Ni	AOAC 19 <sup>th</sup> Edn 2012-975.34	mg/kg	BDL[DL-0.25]	-
<b>FATTY ACID PROFILE</b>					
28	Cholesterol	NAL/SOP/INS/002	mg/100g	183.57	-
<b>DRUG ANTIBIOTICS</b>					
29	Chloramphenicol	NAL/SOP/INS/009	µg/kg	BDL[DL- 0.00075]	Max 0.01
<b>OTHER CONTAMINANTS</b>					
30	Melamine	IS 16195:2014	mg/kg	BDL[DL-0.001]	Max 2.5
<b>TOXIN</b>					
31	Aflatoxin M1	AOAC 19 <sup>th</sup> Edn 2012, 2000.8 Ch-49	µg /kg	BDL[DL-0.1]	Max 0.5
<b>NATURALLY OCCURRING TOXIC SUBSTANCES</b>					
32	Agaric acid	NAL/SOP/F/237	mg /kg	BDL[DL- 10.0]	Max 100
33	Hypericine	NAL/SOP/F/235	mg /kg	BDL[DL-0.25]	Max 1.0
34	Saffrole	NAL/SOP/F/236	mg /kg	BDL[DL-1.0]	Max 10.0
35	Hydrocyanic Acid	AOAC 19 <sup>th</sup> Edn,2012 915.03	mg /kg	BDL[DL- 1.0]	Max 5.0
<b>NITROFURAN METABOLITES</b>					
36	AMOZ	NAL/SOP/INS/011	mg /kg	BDL[DL- 0.0005]	-
37	AOZ		mg /kg	BDL[DL- 0.0005]	-
38	AHD		mg /kg	BDL[DL- 0.0005]	-
39	SEM		mg /kg	BDL[DL- 0.0005]	-
<b>SULFONAMIDES</b>					
40	Sulfamethoxazole	NAL/SOP/INS/012	mg /kg	BDL[DL-0.01]	-
41	Sulfanilamide		mg /kg	BDL[DL-0.01]	Max 0.01
42	Sulfamerazine		mg /kg	BDL[DL-0.01]	-
43	Sulfadimethoxine		mg /kg	BDL[DL-0.01]	-
44	Sulfapyridine		mg /kg	BDL[DL-0.01]	-
45	Sulfamethazine		mg /kg	BDL[DL-0.01]	-
46	Sulfamethoxy pyridazine		mg /kg	BDL[DL-0.01]	-
47	Sulfafiazine		mg /kg	BDL[DL-0.01]	Max 0.01

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## Test Report

T-1192 T-1615

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REPORT DATE: 22.03.2018

S.NO	TEST PARAMETERS	TEST PROTOCOL	UNIT	TEST RESULTS	LIMITS AS PER ISSAI
<b>PESTICIDE RESIDUES (ORGANO CHLORINE &amp; ORGANO PHOSPHORUS)</b>					
48	Aldrin	NAI/SOP/INS/003	mg /kg	BDL[DL-0.01]	Max 0.15
49	Dieldrin		mg /kg	BDL[DL-0.01]	Max 0.15
50	Cis Chlordane		mg /kg	BDL[DL-0.01]	Max 0.05
51	Trans Chlordane		mg /kg	BDL[DL-0.01]	Max 0.05
52	o,p'-DDT		mg /kg	BDL[DL-0.01]	Max 1.25
53	p,p'-DDT		mg /kg	BDL[DL-0.01]	Max 1.25
54	o,p'-DDD		mg /kg	BDL[DL-0.01]	Max 1.25
55	p,p'-DDD		mg /kg	BDL[DL-0.01]	Max 1.25
56	o,p'-DDE		mg /kg	BDL[DL-0.01]	Max 1.25
57	p,p'-DDE		mg /kg	BDL[DL-0.01]	Max 1.25
58	Heptachlor Epoxide		mg /kg	BDL[DL-0.01]	Max 0.15
59	Alfa (α) Isomer:HCH		mg /kg	BDL[DL-0.01]	Max 0.05
60	Beta (β) Isomer:HCH		mg /kg	BDL[DL-0.01]	Max 0.02
61	Gamma (γ) Isomer:HCH		mg /kg	BDL[DL-0.01]	Max 0.01
62	Delta (δ) Isomer:HCH		mg /kg	BDL[DL-0.01]	Max 0.02
63	Chlorfenvinphos		mg /kg	BDL[DL-0.01]	Max 0.2
64	Chlorpyrifos		mg /kg	BDL[DL-0.01]	Max 0.01
65	2,4 D		mg /kg	BDL[DL-0.01]	Max 0.05
66	Ethion		mg /kg	BDL[DL-0.01]	Max 0.5
67	Monocrotophos		mg /kg	BDL[DL-0.01]	Max 0.02
68	Carbendazim		mg /kg	BDL[DL-0.01]	Max 0.10
69	Benomyl		mg /kg	BDL[DL-0.01]	Max 0.10
70	3-Hydroxy Carbofuran		mg /kg	BDL[DL-0.01]	Max 0.05
71	Cypermethrin		mg /kg	BDL[DL-0.01]	Max 0.01
72	Edifenphos	mg /kg	BDL[DL-0.01]	Max 0.01	
73	Paraquat-Dichloride	mg /kg	BDL[DL-0.01]	Max 0.01	
74	Trichlorfon	mg /kg	BDL[DL-0.01]	Max 0.05	

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75	Fenthion Sulphoxide	NAL/SOP/INS/003	mg /kg	BDL[DL-0.01]	Max 0.05
76	Fenthion Sulphone		mg /kg	BDL[DL-0.01]	Max 0.05
77	Fenvalerate		mg /kg	BDL[DL-0.01]	Max 0.01
78	Phenthoate		mg /kg	BDL[DL-0.01]	Max 0.01
79	Phorate Sulphoxide		mg /kg	BDL[DL-0.01]	Max 0.05
80	Phorate Sulphone		mg /kg	BDL[DL-0.01]	Max 0.05
81	Pirimiphos-Methyl		mg /kg	BDL[DL-0.01]	Max 0.05

**BIOLOGICAL PARAMETERS**

82	Total Bacterial Count	IS 5402:2012	Cfu/g	1900	10,000/g
83	Escherichia coli	IS 5887(P-01),1976	Present(or)Absent/g	Absent	Absent/g
84	Coliform	IS 5401(P-01),2012	Cfu/g	<10	10/g
85	Staphylococcus aureus	IS 5887(P-02),1976	Cfu/g	<10	10/g
86	Salmonella	IS 5887(P-03),1999	Present(or)Absent/25g	Absent	Absent/25g
87	Shigella	IS 5887(P-07),1999	Present(or)Absent/25g	Absent	-
88	Total Yeast & mould	IS 5403:1999	Cfu/g	<10	20/g

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.

*Bhava*  
Authorised Signatory

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



For NAWaL Analytical Laboratories

*D. Balakrishnan*  
Authorised Signatory  
(Head Lab)