



# NAWaL Analytical Laboratories

## Test Report



T-1192 T-1615

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

REPORT NO. F/H/17/1124 REPORT DATE: 29.08.2017

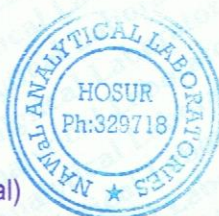
Sample Described by the Customer : SPRAY DRIED SKIMMED MILK POWDER  
Batch No & DOP : 2016 & 04.08.2017  
Name of the Customer / Brand Name : M/s. A.R.DAIRY FOOD PRIVATE LIMITED / RAAJ  
Address : 10/5C, Madurai Road, Begampur (Po), Dindigul,  
Tamilnadu, India-624 002.  
Sample by : M/s. A.R.DAIRY FOOD PRIVATE LIMITED  
Requested By / Designation : Mr.G.Kannan / Manager QC  
Quantity of the Sample Received : 4 X 500 g  
Customer Reference : By letter Dated:19.08.2017  
Date of Sample Receipt : 23.08.2017  
Date of Performance : 23.08.2017 to 28.08.2017

S.No	TEST PARAMETERS	TEST PROTOCOL	UNIT	TEST RESULTS	Req as per IS 13334 (Part-1),2014 (Amendment 1)
<b>CHEMICAL PARAMETERS</b>					
1	Taste	Organophilic analysis	-	Characteristics	-
2	Milk Protein in milk solids not fat	IS 7219:1973	%	36.45	Min 34.0
3	Insolubility Index	IS 12759:1989 (RA-2014)	ml	0.2	Max 2.0
4	Total Ash (On dry basis)	IS 14433: 2007 (RA 2012)	%	7.38	Max 8.2
5	Total Solids	IS 1479 (Part-2):1961 (RA-2012)	%	96.75	-
6	Bulk Density*	IS 1797:1985 (RA-2013)	g/l	511.0	-
7	Scorched Particles	IS 13500:1992 (RA-2012)	mg	7.5	Max 15
8	Milk fat	IS 11721:2013 (RA-2015)	%	0.48	Max 1.5
9	Titrateable Acidity as Lactic Acid	IS 11766-1986 (RA-2012)	ml	13.92	12-18
<b>BIOLOGICAL PARAMETERS</b>					
10	Coagulase Positive <i>Staphylococcus aureus</i>	IS 5887(P-02):1976	Cfu/g	<10	Max 10
11	Salmonella	IS 5887(P-03):1999	Present(or)Absent/25g	Absent	Absent
12	<i>Listeria Monocytogenes</i> *	IS 14988 (P-01):2001	Present(or)Absent/g	Absent	Absent
<b>SPORE COUNT</b>					
13	i) Aerobic ( <i>Bacillus Cereus</i> )	IS 5887(P-06):2012	Cfu/g	<10	Max 100
	ii) Anaerobic (Sulfite reducing <i>Clostridia</i> *)	ISO 15213:2003	Cfu/g	<10	Max 10

Note: The tests marked with an \* are not accredited by NABL. All the above Test Parameters are carried out with the sample as received condition.

Authorised Signatory.

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



For NAWaL Analytical Laboratories

Authorised Signatory.

**D. BALAKRISHNAN**  
(HEAD - LAB)





# NAWaL Analytical Laboratories

## Test Report

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

<b>REPORT NO. F/H/17/1124</b>	<b>REPORT DATE: 29.08.2017</b>
Sample Described by the Customer	: SPRAY DRIED SKIMMED MILK POWDER
Batch No & DOP	: 2016 & 04.08.2017
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	: 4 X 500 g
Customer Reference	: By letter Dated:19.08.2017
Date of Sample Receipt	: 23.08.2017
Date of Performance	: 23.08.2017 to 25.08.2017

S.No	TEST PARAMETERS	TEST PROTOCOL	UNIT	TEST RESULTS	LIMITS AS PER FSSAI
<b>ADULTERANTS</b>					
1	Salt	NAL/SOP/FOOD/012	-	Negative	Negative
2	Sugar		-	Negative	Negative
<b>PRESERVATIVE</b>					
3	Hydrogen Peroxide	NAL/SOP/FOOD/012	-	Negative	Negative
4	Formaldehyde		-	Negative	Negative
<b>HEAVY METALS</b>					
5	Lead as Pb	AOAC 19 <sup>th</sup> Edition 999.11	mg/kg	BDL[DL-0.25]	Max 2.5
6	Copper as Cu	AOAC 19 <sup>th</sup> Edition 999.11	mg/kg	1.10	Max 30.0
7	Arsenic as As	AOAC 19 <sup>th</sup> Edition 963.21	mg/kg	BDL[DL-0.02]	Max 0.1
8	Zinc as Zn	AOAC 19 <sup>th</sup> Edition 999.11	mg/kg	31.01	Max 50.0
9	Tin as Sn	AOAC 19 <sup>th</sup> Edition 980.19	mg/kg	BDL[DL-2.5]	Max 250.0
10	Cadmium as Cd	AOAC 19 <sup>th</sup> Edition 999.11	mg/kg	BDL[DL-0.10]	Max 1.5
11	Mercury as Hg	AOAC 19 <sup>th</sup> Edition 971.21	mg/kg	BDL[DL-0.02]	Max 1.0
12	Methyl Mercury as CH <sub>3</sub> Hg	AOAC 19 <sup>th</sup> Edition 971.21	mg/kg	BDL[DL-0.05]	Max 0.25
<b>TOXINS</b>					
13	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 TOXIN SUBSTANCES</b>					
14	Agaric acid	NAL/SOP/F/237	mg/kg	BDL[DL-10.0]	-
15	Hypericine	NAL/SOP/F/235	mg/kg	BDL[DL-0.25]	-
16	Hydrocyanic Acid	AOAC 19 <sup>th</sup> Edn.2012 915.03	mg/kg	BDL [DL-1.0]	-
17	Saffrole	NAL/SOP/F/236	mg/kg	BDL[DL-1.0]	-
<b>PESTICIDES RESIDUES</b>					
18	Alpha BHC	NAL/SOP/INS/003	mg/kg	BDL[DL-0.01]	Max 0.05
19	Beta BHC		mg/kg	BDL[DL-0.01]	Max 0.02
20	Gamma BHC		mg/kg	BDL[DL-0.01]	Max 0.20
21	Chlordane		mg/kg	BDL[DL-0.01]	Max 0.05
22	Aldrin		mg/kg	BDL[DL-0.01]	Max 0.15
23	Dieldrin		mg/kg	BDL[DL-0.01]	Max 0.15

Continue.....





# NAWaL Analytical Laboratories

## Test Report

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

REPORT NO. F/H/17/1124

REPORT DATE, 29.08.2017

S.No	TEST PARAMETERS	TEST PROTOCOL	UNIT	TEST RESULTS	LIMITS AS PER FSSAI	
24	Op-DDD	NAL/SOP/INS/003	mg/kg	BDL[DL-0.01]	-	
25	Pp-DDD		mg/kg	BDL[DL-0.01]	-	
26	Op-DDE		mg/kg	BDL[DL-0.01]	-	
27	Pp-DDE		mg/kg	BDL[DL-0.01]	-	
28	Chlorpyrifos		mg/kg	BDL[DL-0.01]	Max 0.01	
29	Monocrotophos		mg/kg	BDL[DL-0.01]	Max 0.02	
30	Ethion		mg/kg	BDL[DL-0.01]	Max 0.5	
31	Phorate		mg/kg	BDL[DL-0.01]	Max 0.05	
32	Heptachlor		mg/kg	BDL[DL-0.01]	Max 0.1	
33	Fenitrothion		mg/kg	BDL[DL-0.01]	Max 0.05	
34	Hexachlorocyclohexane		mg/kg	BDL[DL-0.01]	Max 0.20	
35	Chlorienvinphos		mg/kg	BDL[DL-0.01]	Max 0.2	
36	2,4D		mg/kg	BDL[DL-0.01]	Max 0.05	
37	Paraquat-Dichloride		mg/kg	BDL[DL-0.01]	Max 0.01	
38	Trichlorfon		mg/kg	BDL[DL-0.01]	Max 0.05	
39	Carbendazim		mg/kg	BDL[DL-0.01]	Max 0.10	
40	Cypermethrin		mg/kg	BDL[DL-0.01]	Max 0.01	
41	Edifenphos		mg/kg	BDL[DL-0.01]	Max 0.01	
42	Fenthion		mg/kg	BDL[DL-0.01]	Max 0.05	
43	Fenvalerate & Esfenvalerate		mg/kg	BDL[DL-0.01]	Max 0.01	
44	Phenthoate		mg/kg	BDL[DL-0.01]	Max 0.01	
45	Pirimiphos-methyl		mg/kg	BDL[DL-0.01]	Max 0.05	
<b>OTHER CONTAMINANTS</b>						
46	Melamine		IS 16195:2014	mg/kg	BDL[DL-0.001]	-

Note: All the above Test Parameters are carried out with the sample "as received condition". BDL-Indicates Below Detectable limit,



For NAWaL Analytical Laboratories

Authorised Signatory.

**D. BALAKRISHNAN**  
(HEAD - LAB)