



# SMS LABS SERVICES PRIVATE LIMITED



Chemical T-2637  
Biological T-2639  
Mechanical T-2638

## TEST REPORT

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Report No : QFD/19060149-001

Report Date: 13 Jun 2019

**Customer Name** : M/s. A.R.Dairy Food Private Limited  
**Customer Address** : No:10/5C, Madurai Road,Begampur Post, Dindigul-624 002  
**Sample Name** : Raaj Full Cream Milk **Sample Quantity** : 5x500ml  
**Sample Description** : Raaj Full Cream Milk **Sample Received on** : 07 Jun 2019  
**Reference** : Customer Letter Dated 06.06.2019 **Test Started on** : 08 Jun 2019  
**Sample Identification** : Batch No; DTH.C3, UBD: 08 JUN 19 **Test Completed on** : 13 Jun 2019  
**Sample Drawn By** : Customer

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011 Amd.2019
<b>Biological</b>					
1	Coliform	IS 5401 Part 1	cfu/ml	<1	<10/ml
2	Escherichia coli	IS 5887 Part 1	--	Absent/ml	Absent/ml
3	Listeria monocytogenes	IS 14988 Part 1	--	Absent/ml	Absent/ml
4	Salmonella	IS 5887 Part 3	--	Absent/25ml	Absent/25ml
5	Staphylococcus aureus	IS 5887 Part 2	cfu/ml	<1	<10/ml
6	Total Plate Count	IS 5402	cfu/ml	8000	30000/ml
7	Yeast & Mould	IS 5403	cfu/ml	<1	--
<b>Chemical</b>					
8	Ammonium Compounds	FSSAI Manual - 1	--	Absent	--
9	Anionic Compounds	FSSAI Manual - 1	--	Absent	--
10	Carbohydrate	IS 1656	g/100g	5.47	--
11	Dulcin	FSSAI Manual - 1	--	Absent	--
12	Energy	SMSLA/FD/SOP/011	Kcal/100g	92.01	--
13	Fat	FSSAI Manual - 1	g/100g	6.09	--
14	Gelatin	FSSAI Manual - 1	--	Absent	--
15	Hypochlorites and Chloramines	FSSAI Manual - 1	--	Absent	--
16	Milk Fat	FSSAI Manual - 1	g/100g	6.09	NLT 6.0
17	Neutralizers	FSSAI Manual - 1	--	Absent	--
18	Nitrates	FSSAI Manual - 1	--	Absent	--
19	Protein (N * 6.38)	AOAC 21st Edition - 2001.11	g/100g	3.83	--
20	Quarternary Ammonium Compounds	FSSAI Manual - 1	--	Absent	--
21	Solid Not Fat (SNF)	FSSAI Manual - 1	g/100g	9.30	NLT 9.0

  
**S.ANBARASAN**  
Manager Microbiology

  
**P. KUMAR**  
Senior Manager

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Report Date: 13 Jun 2019

S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011 Amd.2019
22	Sugar (Sucrose)	IS 1479 Part - 2	--	Absent	--
23	Sulphates	FSSAI Manual - 1	--	Absent	--
<b>Chemical - Adulterants</b>					
24	Added Glucose	FSSAI Manual - 1	--	Absent	--
25	Added Urea	FSSAI Manual - 1	--	Absent	--
26	Cane Sugar/Sucrose	FSSAI Manual - 1	--	Absent	--
27	Cellulose	FSSAI Manual - 1	--	Absent	--
28	Saccharin	FSSAI Manual - 1	--	Absent	--
29	Sodium Chloride	FSSAI Manual - 1	--	Absent	--
30	Starch	FSSAI Manual - 1	--	Absent	--
<b>Chemical - Preservatives</b>					
31	Boric Acid & Borates	FSSAI Manual - 1	--	Absent	--
32	Formalin	FSSAI Manual - 1	--	Absent	--
33	Hydrogen Peroxide	FSSAI Manual - 1	--	Absent	--
<b>Cyanamides</b>					
34	Melamine	SMSLA/IN/SOP/45	mg/kg	BLQ(LOQ:0.01)	NMT 2.5
<b>Heavy Metals</b>					
35	Arsenic as As	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.01)	NMT 0.10
36	Cadmium as Cd	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.1)	NMT 1.50
37	Copper as Cu	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.1)	NMT 30.0
38	Lead as Pb	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.01)	NMT 0.02
39	Mercury as Hg	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.1)	NMT 1.0
40	Methyl mercury as Me-Hg	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.1)	NMT 0.25
41	Tin as Sn	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.1)	NMT 250
<b>Pesticide Residues</b>					
42	Ethion	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	NMT 0.5
43	OC Pesticides - G				
	1) 2,4' - DDE	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	2) 2,4' - DDT	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	3) 2,4' - DDD	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	4) 4,4' - DDD	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01

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S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011 Amd.2019
	5) 4,4' - DDE	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	6) 4,4' - DDT	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	7) Aldrin	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	8) alpha - Endosulfan	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--
	9) alpha - HCH	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	10) beta - Endosulfan	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--
	11) beta - HCH	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	12) delta - HCH	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	13) Dieldrin	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	14) Endosulfan Sulfate	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	15) Heptachlor	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	16) Heptachlor epoxide	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--
	17) Hexachlorobenzene	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--
	18) Hexachlorocyclohexane	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	19) Lindane (gamma - HCH)	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
44	OP Pesticides - G				
	1) Chlorpyrifos	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	2) Parathion methyl	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--
45	OP Pesticides - G				
	1) Chlorfenvinphos (cis & trans)	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	NMT 0.01
	2) Ethion	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	NMT 0.5
46	OP Pesticides - L				
	1) Phorate sulfone	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.05
	2) Phorate sulphoxide	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.05
47	OP Pesticides - L				
	1) Malaoxon	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	--
	2) Malathion	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	--
	3) Monocrotophos	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	NMT 0.02
	4) Paraoxan methyl	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	--
	5) Phorate	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	NMT 0.05
48	Parathion	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--



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S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011 Amd.2019
<b>Physical</b>					
49	Appearance	Physical Examination	--	White colour liquid	--
50	Color	Physical Examination	--	White colour	--
51	Foreign Matter	Physical Examination	--	Absent	--
52	Odour	Physical Examination	--	Characteristic Odour	--
53	Taste	Physical Examination	--	Characteristic Taste	--
<b>Toxins-Mycotoxins</b>					
54	Aflatoxin M1	SMSLA/IN/SOP/58	µg/kg	BLQ(LOQ:0.25)	NMT 0.50
<b>Toxins-NOTs</b>					
55	Agaric Acid	SMSLA/IN/SOP/53	mg/kg	BLQ(LOQ:20.0)	--
56	Hydrocyanic acid	AOAC 21st Edition - 915.03	mg/kg	BLQ(LOQ:5.0)	--
57	Hypericine	SMSLA/IN/SOP/53	mg/kg	BLQ(LOQ:0.20)	--
58	Safrole	SMSLA/IN/SOP/53	mg/kg	BLQ(LOQ:0.50)	--

Remarks: The above sample complies with the specification as per FSSR 2011, Amendment 2019 for the above tested parameters.

Note : <1 cfu/mL can be taken as absent. cfu-colony forming unit.

BDL: Below Detection Limit DL: Detection Limit. Note : BLQ: Below Quantification Limit, LOQ: Limit of Quantification.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

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# SMS LABS SERVICES PRIVATE LIMITED



Chemical T-2637  
Biological T-2639  
Mechanical T-2638

## TEST REPORT

Report No : QFD/19060149-002

Page 1 of 4  
Report Date: 13 Jun 2019

**Customer Name** : M/s. A.R.Dairy Food Private Limited  
**Customer Address** : No:10/5C, Madurai Road,Begampur Post, Dindigul-624 002  
**Sample Name** : Raaj Standardized Milk  
**Sample Description** : Raaj Standardized Milk  
**Reference** : Customer Letter Dated 06.06.2019  
**Sample Identification** : Batch No; KYA.C1, UBD: 08 JUN 19  
**Sample Drawn By** : Customer  
**Sample Quantity** : 5x500ml  
**Sample Received on** : 07 Jun 2019  
**Test Started on** : 08 Jun 2019  
**Test Completed on** : 13 Jun 2019

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011 Amd.2019
<b>Biological</b>					
1	Coliform	IS 5401 Part 1	cfu/ml	<1	<10/ml
2	Escherichia coli	IS 5887 Part 1	--	Absent/ml	Absent/ml
3	Listeria monocytogenes	IS 14988 Part 1	--	Absent/ml	Absent/ml
4	Salmonella	IS 5887 Part 3	--	Absent/25ml	Absent/25ml
5	Staphylococcus aureus	IS 5887 Part 2	cfu/ml	<1	<10/ml
6	Total Plate Count	IS 5402	cfu/ml	8000	30000/ml
7	Yeast & Mould	IS 5403	cfu/ml	<1	--
<b>Chemical</b>					
8	Ammonium Compounds	FSSAI Manual - 1	--	Absent	--
9	Anionic Compounds	FSSAI Manual - 1	--	Absent	--
10	Carbohydrate	IS 1656	g/100g	5.48	--
11	Dulcin	FSSAI Manual - 1	--	Absent	--
12	Energy	SMSLA/FD/SOP/011	Kcal/100g	76.94	--
13	Fat	FSSAI Manual - 1	g/100g	4.58	--
14	Gelatin	FSSAI Manual - 1	--	Absent	--
15	Hypochlorites and Chloramines	FSSAI Manual - 1	--	Absent	--
16	Milk Fat	FSSAI Manual - 1	g/100g	4.58	NLT 4.5
17	Neutralizers	FSSAI Manual - 1	--	Absent	--
18	Nitrates	FSSAI Manual - 1	--	Absent	--
19	Protein (N * 6.38)	AOAC 21st Edition - 2001.11	g/100g	3.45	--
20	Quarternary Ammonium Compounds	FSSAI Manual - 1	--	Absent	--
21	Solid Not Fat (SNF)	FSSAI Manual - 1	g/100g	8.93	NLT 8.50

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S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011 Amd.2019
22	Sugar (Sucrose)	IS 1479 Part - 2	--	Absent	--
23	Sulphates	FSSAI Manual - 1	--	Absent	--
<b>Chemical - Adulterants</b>					
24	Added Glucose	FSSAI Manual - 1	--	Absent	--
25	Added Urea	FSSAI Manual - 1	--	Absent	--
26	Cane Sugar/Sucrose	FSSAI Manual - 1	--	Absent	--
27	Cellulose	FSSAI Manual - 1	--	Absent	--
28	Saccharin	FSSAI Manual - 1	--	Absent	--
29	Sodium Chloride	FSSAI Manual - 1	--	Absent	--
30	Starch	FSSAI Manual - 1	--	Absent	--
<b>Chemical - Preservatives</b>					
31	Boric Acid & Borates	FSSAI Manual - 1	--	Absent	--
32	Formalin	FSSAI Manual - 1	--	Absent	--
33	Hydrogen Peroxide	FSSAI Manual - 1	--	Absent	--
<b>Cyanamides</b>					
34	Melamine	SMSLA/IN/SOP/45	mg/kg	BLQ(LOQ:0.01)	NMT 2.5
<b>Heavy Metals</b>					
35	Arsenic as As	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.01)	NMT 0.10
36	Cadmium as Cd	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.1)	NMT 1.50
37	Copper as Cu	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.1)	NMT 30.0
38	Lead as Pb	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.01)	NMT 0.02
39	Mercury as Hg	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.1)	NMT 1.0
40	Methyl mercury as Me-Hg	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.1)	NMT 0.25
41	Tin as Sn	SMSLA/IN/SOP/87	mg/kg	BDL(DL:0.1)	NMT 250
<b>Pesticide Residues</b>					
42	Ethion	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	NMT 0.5
43	OC Pesticides - G				
	1) 2,4' - DDE	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	2) 2,4' - DDT	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	3) 2,4' - DDD	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	4) 4,4' - DDD	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01

  
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S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011 Amd.2019
	5) 4,4' - DDE	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	6) 4,4' - DDT	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	7) Aldrin	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	8) alpha - Endosulfan	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--
	9) alpha - HCH	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	10) beta - Endosulfan	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--
	11) beta - HCH	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	12) delta - HCH	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	13) Dieldrin	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	14) Endosulfan Sulfate	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	15) Heptachlor	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	16) Heptachlor epoxide	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--
	17) Hexachlorobenzene	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--
	18) Hexachlorocyclohexane	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	19) Lindane (gamma - HCH)	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
44	OP Pesticides - G				
	1) Chlorpyrifos	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.01
	2) Parathion methyl	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--
45	OP Pesticides - G				
	1) Chlorfenvinphos (cis & trans)	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	NMT 0.01
	2) Ethion	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	NMT 0.5
46	OP Pesticides - L				
	1) Phorat sulfone	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.05
	2) Phorate sulphoxide	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	NMT 0.05
47	OP Pesticides - L				
	1) Malaoxon	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	--
	2) Malathion	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	--
	3) Monocrotophos	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	NMT 0.02
	4) Paraoxan methyl	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	--
	5) Phorate	SMSLA/IN/SOP/92	mg/kg	BDL(DL:0.01)	NMT 0.05
48	Parathion	SMSLA/IN/SOP/15	mg/kg	BDL(DL:0.01)	--

  
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S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011 Amd.2019
<b>Physical</b>					
49	Appearance	Physical Examination	--	White colour liquid	--
50	Color	Physical Examination	--	White colour	--
51	Foreign Matter	Physical Examination	--	Absent	--
52	Odour	Physical Examination	--	Characteristic Odour	--
53	Taste	Physical Examination	--	Characteristic Taste	--
<b>Toxins-Mycotoxins</b>					
54	Aflatoxin M1	SMSLA/IN/SOP/58	µg/kg	BLQ(LOQ:0.25)	NMT 0.50
<b>Toxins-NOTs</b>					
55	Agaric Acid	SMSLA/IN/SOP/53	mg/kg	BLQ(LOQ:20.0)	--
56	Hydrocyanic acid	AOAC 21st Edition - 915.03	mg/kg	BLQ(LOQ:5.0)	--
57	Hypericine	SMSLA/IN/SOP/53	mg/kg	BLQ(LOQ:0.20)	--
58	Safrole	SMSLA/IN/SOP/53	mg/kg	BLQ(LOQ:0.50)	--

Remarks: The above sample complies with the specification as per FSSR 2011, Amendment 2019 for the above tested parameters.  
Note : <1 cfu/mL can be taken as absent. cfu-colony forming unit.  
BDL: Below Detection Limit DL: Detection Limit. Note : BLQ: Below Quantification Limit, LOQ: Limit of Quantification.

/\*\*\*\*\* End of the Report \*\*\*\*\*/



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