



MONARCH BIOTECH PVT. LTD.

UNIT : MONARCH NUCLEAR COUNTING LABORATORY



TC - 8208

Accredited by : AERB & NABL Recognized by : BIS & *fssai*

TEST REPORT

ORIGINAL

Report Number: MBT / TR / 2939 / 2018 - 19

Date: 26.09.2018

PARTICULARS OF SAMPLE SUBMITTED

Sample Described by customer as : RAAJ STANDARIZED (ACTIVE) MILK
Customer Name : M/S.A.R.DAIRY FOOD PRIVATE LIMITED
Customer Address : 10 / 5C, Madurai Road, Begampur Post, Dindigul.
Postal Code : 624 002
State : Tamil Nadu
Country : India
Sample Code No : M1809029
Sample Type : Milk
Sample Received Date : 21.09.2018
Sample Qty. Recd. : 1000 mlx 4 No's
Customer Reference : Letter Dated: 20.09.2018
Batch No : CSF. A1
Mfg. Date : 20.09.2018
Exp. Date : 23.09.2018
Brand Name : "RAAJ"

Terms and Condition

This report in full or in part shall not be published, advertised, used for any legal action, unless prior permission has been secured. This test report pertains only for the sample tested and such samples are retained for 7 days (in case of perishable) and 15 days for all other samples. If there is any complaint received from the customer within 15 days from the date of report, sample will be kept for 30 days. The samples from regulatory bodies are to be retained as specified. Sample not drawn by laboratory.



For Monarch Biotech Pvt Ltd

M. Saravanan

Authorized Signatory
M.Saravanan,
Quality Manager.

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LAB : 37-A, SIDCO Industrial Estate, Thirumazhisai, Chennai - 600 124, Tamilnadu, INDIA. Phone: 91-44- 26810052

FORM No.: MBT / QF / 059

Issue No.: 01

Issue Date: 06/06/14

Amend No.: NIL

Amend Date: NIL



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TEST REPORT

Date: 26.09.2018

Sample No : M1809029

Job Card No : 2939

Report No : MBT / TR /2939 / 2018-19

Reference to sampling procedure,
Wherever applicable : Not applicable

Deviation from the test methods as prescribed
in relevant ISS/Work Instructions, if any : NIL

Test Commenced On : 21.09.2018

Test Completed On : 26.09.2018

S.No	Test Parameters	Test Method	Result	Unit	Requirement as per FSSAI 2016
I	Physical Parameters				
1	Appearance	Physical Examination	Very Milky	---	---
2	Colour		White Colour	---	---
3	Foreign matter		Absent	---	---
4	Taste		Characteristic taste	---	---
5	Odour		Unobjectionable Odour	---	---
II	Chemical Parameters				
1	Milk Fat	Manual of Methods of Analysis of Foods – Milk and Milk Products – 2016	4.58	g/100ml	Min. 4.50
2	Solid Not Fat (SNF)		8.62	g/100ml	Min. 8.50
3	Sugar as Sucrose		BLQ(LOQ:1.0)	g/100ml	---



K. Senthilnathan
Authorized Signatory
K.Senthilnathan
Senior Chemist

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S.No	Test Parameters	Test Method	Result	Unit	Requirement as per FSSAI 2016
III	Adulterants				
1	Cane Sugar	Manual of Methods of Analysis of Foods – Milk and Milk Products – 2016	Absent	---	---
2	Starch		Absent	---	---
3	Cellulose		Absent	---	---
4	Added Urea		Absent	---	NMT 700 mg/kg
5	Ammonium Compounds		Absent	---	---
6	Sulphates		Absent	---	---
7	Added Glucose		Absent	---	---
8	Sodium Chloride		Absent	---	---
9	Saccharin		Absent	---	---
10	Dulcin		Absent	---	---
11	Nitrates		Absent	---	---
12	Neutralizers		Absent	---	---
13	Hypochlorites		Absent	---	---
14	Chloramines		Absent	---	---
15	QAC (Quaternary Ammonium Compounds)		Absent	---	---
16	Anionic Detergent		Absent	---	---
17	Gelatin		Absent	---	---
18	Formalin		Absent	---	---
19	Hydrogen Peroxide (Quantitative)		BLQ (LOQ:0.005)	g/100 ml	---
20	Boric acid		Absent	---	---
21	Borates		Absent	---	---
22	Salicylic acid		Absent	---	---



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S.No	Test Parameters	Test Method	Result	Unit	Requirement as per FSSAI 2016
IV	Pesticides (OC) Organochlorine				
1	Aldrin	MBT/CL/SOP/072	BLQ (LOQ : 0.01)	mg/kg	Max. 0.15
2	Deldrin		BLQ (LOQ : 0.01)	mg/kg	Max. 0.15
3	2,4' - DDD		BLQ (LOQ : 0.01)	mg/kg	Max. 1.25
4	2,4' - DDE		BLQ (LOQ : 0.01)	mg/kg	Max. 1.25
5	2,4' - DDT		BLQ (LOQ : 0.01)	mg/kg	Max. 1.25
6	4,4' - DDD		BLQ (LOQ : 0.01)	mg/kg	Max. 1.25
7	4,4' - DDE		BLQ (LOQ : 0.01)	mg/kg	Max. 1.25
8	4,4' - DDT		BLQ (LOQ : 0.01)	mg/kg	Max. 1.25
9	Endosulfan Sulfate		BLQ (LOQ : 0.01)	mg/kg	---
10	alpha - Endosulfan		BLQ (LOQ : 0.01)	mg/kg	---
11	beta - Endosulfan		BLQ (LOQ : 0.01)	mg/kg	---
12	alpha - HCH		BLQ (LOQ : 0.01)	mg/kg	Max. 0.05
13	beta - HCH		BLQ (LOQ : 0.01)	mg/kg	Max. 0.02
14	delta - HCH		BLQ (LOQ : 0.01)	mg/kg	Max. 0.02
15	Heptachlor epoxide isomer B		BLQ (LOQ : 0.01)	mg/kg	---
16	Lindane		BLQ (LOQ : 0.01)	mg/kg	Max. 0.01
17	Hexachlorobenzene		BLQ (LOQ : 0.01)	mg/kg	---



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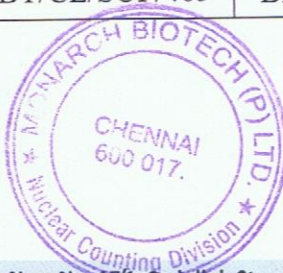
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S.No	Test Parameters	Test Method	Result	Unit	Requirement as per FSSAI 2016
V	Pesticides (OP) Organophosphorus				
18	Chlorfenvinphos Mixture of Cis and Trans	MBT/CL/SOP/072	BLQ (LOQ : 0.01)	mg/kg	Max. 0.20
19	Chlorpyrifos		BLQ (LOQ : 0.01)	mg/kg	Max. 0.01
21	Ethion		BLQ (LOQ : 0.01)	mg/kg	Max. 0.50
22	Malaoxon		BLQ (LOQ : 0.01)	mg/kg	---
23	Malathion		BLQ (LOQ : 0.01)	mg/kg	---
24	Monocrotophos		BLQ (LOQ : 0.01)	mg/kg	Max. 0.02
26	Parathion methyl		BLQ (LOQ : 0.01)	mg/kg	---
27	Paraoxon methyl		BLQ (LOQ : 0.01)	mg/kg	---
28	Phorate		BLQ (LOQ : 0.01)	mg/kg	Max. 0.05
29	Phoratesulphoxide		BLQ (LOQ : 0.01)	mg/kg	
30	Phoratesulfone		BLQ (LOQ : 0.01)	mg/kg	
VI	HEAVY METALS				
1	Lead (as Pb)	MBT/CL/SOP/091	BLQ (LOQ : 0.02)	mg/kg	Max. 0.02
2	Copper (as Cu)		0.5	mg/kg	Max. 30
3	Arsenic (as As)		BLQ(LOQ : 0.01)	mg/kg	Max. 0.10
4	Mercury (as Hg)		BLQ (LOQ : 0.01)	mg/kg	Max. 1.00
5	Methyl Mercury calculated as the element		BLQ (LOQ : 0.01)	mg/kg	Max. 0.25
6	Tin (as Sn)		12.6	mg/kg	Max. 250
7	Cadmium (as Cd)		BLQ (LOQ : 0.10)	mg/kg	Max. 1.50
VII	Melamine	MBT/CL/SOP/471	BLQ(LOQ : 0.5)	µg/kg	Max. 2.5
VIII	Aflatoxin M1	MBT/CL/SOP/465	BLQ (LOQ : 0.05)	µg/kg	Max. 0.50



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S.No	Test Parameters	Test Method	Result	Unit	Requirement as per FSSAI 2016
IX	Nutritional Value				
1	Energy (by calculation)	Manual of Methods of Analysis of Foods – Milk and Milk Products – 2016	71.1	Kcal/100 ml	---
2	Carbohydrate (by difference)		6.08	g/100ml	---
3	Protein		3.20	g/100ml	---
4	Total Fat		4.58	g/100ml	Min. 4.5



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Reference to sampling procedure,
Wherever applicable : Not applicable

Deviation from the test methods as prescribed
in relevant ISS/Work Instructions, if any : NIL

Test Commenced On : 21.09.2018

Test Completed On : 26.09.2018

S.No	Test Parameters	Test Method	Result	Unit	Requirements for FSSAI 2.1.1
1	Total Bacterial count	IS 5402 : 2012	10	Cfu/ml	50,000 Cfu/ml
2	Yeast & Mould	IS 5403 : 1999 RA 2009	< 1	Cfu/ ml	-
3	Escherichia coli	IS 5887 Part -1 1976 RA 2009	< 1	Cfu/m	Absent / ml
4	Coliform	IS 5401 Part -1 2012	< 1	Cfu/m	< 10 / ml
5	Staphylococcus aureus	IS 5887 Part -8 /sec 1 2002 RA 2012	< 1	Cfu/ml	< 10 /ml
6	Salmonella	IS 5887 Part - 3 1999 RA 2009	Absent	/ 25 ml	Absent/25 ml
7	Listeria monocytogenes	IS 14988 Part -1 2001 RA 2012	Absent	/25 ml	Absent /ml

Note :< 1 can be considered as absent

Remarks: The above sample Complies with requirements as per FSSAI.

***** End of Report *****



Authorized Signatory
S.Thamarai selvi
Technical Manager – Biological

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