



MONARCH NUCLEAR COUNTING LABORATORY
A UNIT OF MONARCH BIOTECH PRIVATE LIMITED



Accredited by AERB & NABL, (Wide Certificate No: TC-6206) Recognized By BIS & Notified by FSSAI

TEST REPORT

ORIGINAL

Date: 13.07.2023

ULR – TC620623000007335F
Discipline: Chemical, Biological
Ref: MBT / CL / BL / 2023 – 2024

PARTICULARS OF SAMPLE SUBMITTED

*Sample Described by customer as : BUTTER 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 : 2307139
Sample Type : BUTTER MILK
Sample Received Date : 05.07.2023
Sample Qty. Recd. : 170 ml x 4 No's
*Customer Reference : Letter Dated: 04.07.2023
*Batch No : 063.A1
*Packing Date : Nil
*Use By Date : 11 JUL 23
*Brand Name : "RAAJ"

Note: *This information was provided by customer.

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This report in full or in part shall not be published, advertised, used for any legal action, unless prior permission has been secured.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

K. Senthilnathan

Deputy Technical Manager- Chemical
Authorized Signatory

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TEST REPORT

ULR – TC620623000007335F

Date: 13.07.2023

Discipline : **Chemical**

Group : **Food & Agricultural Products**

Sample No : **2307139**

Job Card No : **42686**

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 : **05.07.2023**

Test Completed On : **12.07.2023**

S.No	Test Parameters	Test Method	Result	Unit	Prescribed Standards as per 2.1.13(C) of Food Products Standards & Food Additives Regulations 2011
I Chemical Parameters					
1	Energy Value	Methods of Analysis and Conversion Factors. FAO Food and Nutrition	29.6	Kcal/100g	---
2	Total Fat	Manual of Methods of Analysis of Foods – Milk and Milk Products – FSSAI 2016	1.22	g/100g	---
3	SNF		5.23	g/100g	---
4	Saturated Fat	MBT/CL/SOP/074	0.84	g/100g	---
5	Trans Fat		BLQ (LOQ:0.1)	g/100g	---
6	Cholesterol	MBT/CL/SOP/075	3.69	mg/100g	---
7	Protein	Manual of Methods of Analysis of Foods – Milk and Milk Products – FSSAI 2016	2.07	g/100g	---
8	Total Carbohydrate	Methods of Analysis and Conversion Factors. FAO Food and Nutrition	2.9	g/100g	---



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Technical Manager - Chemical
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9	Poly Unsaturated Fat	MBT/CL/SOP/074	BLQ(LOQ:0.1)	g/100g	---
10	Mono Unsaturated Fat		0.34	g/100g	---
II Adulterants					
1	Hydrogen Peroxide	Manual of Methods of Analysis of Foods – Milk and Milk Products – FSSAI 2016	Absent	---	---
2	Starch		Absent	---	---
3	Boric Acid & Borate		Absent	---	---
4	Cellulose		Absent	---	---
5	Urea		Absent	---	---
6	Formaldehyde		Absent	---	---
7	Sodium Chloride		Present	---	---
III Heavy Metals					
1	Lead	MBT/CL/SOP/091	BLQ (LOQ:0.08)	mg/kg	NMT 2.50
2	Arsenic		BLQ (LOQ:0.01)	mg/kg	NMT 1.10
3	Methyl Mercury		BLQ (LOQ:0.01)	mg/kg	NMT 0.25
IV Other Contaminants					
1	Aflatoxin M1	MBT/CL/SOP/465	BLQ (LOQ:0.05)	µg/kg	NMT 0.5
2	Melamine	MBT/CL/SOP/471	BLQ (LOQ:0.05)	mg/kg	NMT 2.5
V Antibiotics / Veterinary Drug Residue					
1	Ampicillin	MBT/CL/SOP/565	BLQ(LOQ:0.005)	mg/kg	---
2	Cloxacillin		BLQ(LOQ:0.005)	mg/kg	---
3	Ceftiofur		BLQ(LOQ:0.005)	mg/kg	---
4	Sulphathiazole Sodium		BLQ(LOQ:0.005)	mg/kg	---
5	Sulfadiazine		BLQ(LOQ:0.005)	mg/kg	---
6	Enrofloxacin		BLQ(LOQ:0.005)	mg/kg	---
7	Sulfaquinoxaline		BLQ(LOQ:0.005)	mg/kg	---
8	Sulfadimidine/Sulfamethazine		BLQ(LOQ:0.005)	mg/kg	---
9	Oxytetracycline		BLQ(LOQ:0.005)	mg/kg	---



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S.No	Test Parameters	Test Method	Result	Unit	Prescribed Standards as per 2.1.13 (C) of Food Products Standards & Food Additives Regulations 2011
VI	Pesticide Residues				
1	2,4 D	MBT/CL/SOP/568	BLQ(LOQ:0.01)	mg/kg	NMT 0.05
2	Acephate		BLQ(LOQ:0.01)	mg/kg	NMT 0.02
3	Acetamiprid		BLQ(LOQ:0.01)	mg/kg	NMT 0.02
4	Azoxystrobin		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
5	Benomyl		BLQ(LOQ:0.01)	mg/kg	NMT 0.1
6	Bifenthrin		BLQ(LOQ:0.01)	mg/kg	NMT 0.2
7	Bitertanol		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
8	Buprofezin		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
9	Carbaryl		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
10	Carbendazim		BLQ(LOQ:0.01)	mg/kg	NMT 0.1
11	Carbofuran		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
12	Chlorantraniliprole		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
13	Chlorothalonil		BLQ(LOQ:0.01)	mg/kg	NMT 0.07
14	Chlorpyrifos		BLQ(LOQ:0.01)	mg/kg	NMT 0.02
15	Chlothianidin		BLQ(LOQ:0.01)	mg/kg	NMT 0.02
16	Cypermethrin		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
17	Decamethrin/Deltamethrin		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
18	Dichlorvos		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
19	Difenconazole		BLQ(LOQ:0.01)	mg/kg	NMT 0.02
20	Dimethoate		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
21	Dinotefuran		BLQ(LOQ:0.01)	mg/kg	NMT 0.1
22	Mancozeb	MBT/CL/SOP/497	BLQ(LOQ:0.01)	mg/kg	NMT 0.05
23	Metiram		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
24	Edifenphos	MBT/CL/SOP/568	BLQ(LOQ:0.01)	mg/kg	NMT 0.01
25	Ethion		BLQ(LOQ:0.01)	mg/kg	NMT 0.5
26	Ethofenprox		BLQ(LOQ:0.01)	mg/kg	NMT 0.02
27	Fenpropathrin		BLQ(LOQ:0.01)	mg/kg	NMT 0.1
28	Fenpyroximate		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
29	Fipronil		BLQ(LOQ:0.01)	mg/kg	NMT 0.02
30	Flubendiamide		BLQ(LOQ:0.01)	mg/kg	NMT 0.1



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Date: 13.07.2023

S.No	Test Parameters	Test Method	Result	Unit	Prescribed Standards as per 2.1.13(C) of Food Products Standards & Food Additives Regulations 2011
31	Flusilazole	MBT/CL/SOP/568	BLQ(LOQ:0.01)	mg/kg	NMT 0.05
32	Glufosinate ammonium	MBT/CL/SOP/508	BLQ(LOQ:0.01)	mg/kg	NMT 0.02
33	Imidacloprid	MBT/CL/SOP/568	BLQ(LOQ:0.01)	mg/kg	NMT 0.1
34	Indoxacarb		BLQ(LOQ:0.01)	mg/kg	NMT 0.1
35	Kresoxim Methyl		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
36	Methomyl		BLQ(LOQ:0.01)	mg/kg	NMT 0.02
37	Methyl Chlorophenoxy Acetic Acid (MCPA)		MBT/CL/SOP/571	BLQ(LOQ:0.01)	mg/kg
38	Metolachlor	MBT/CL/SOP/568	BLQ(LOQ:0.01)	mg/kg	NMT 0.01
39	Monocrotophos		BLQ(LOQ:0.01)	mg/kg	NMT 0.02
40	Oxydemeton methyl		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
41	ParaquatDiHCl	MBT/CL/SOP/571	BLQ(LOQ:0.01)	mg/kg	NMT 0.01
42	Penconazole	MBT/CL/SOP/568	BLQ(LOQ:0.01)	mg/kg	NMT 0.01
43	Phenthoate		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
44	Phorate		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
45	Pirimiphos-methyl		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
46	Propiconazole		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
47	Pyraclostrobin		BLQ(LOQ:0.01)	mg/kg	NMT 0.03
48	Tebuconazole		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
49	Thiacloprid		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
50	Thiodicarb		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
51	Thiometon		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
52	Trichlorfon		BLQ(LOQ:0.01)	mg/kg	NMT 0.05
53	Triadimefon		BLQ(LOQ:0.01)	mg/kg	NMT 0.01
54	Emamectin Benzoate		BLQ(LOQ:0.01)	mg/kg	NMT 0.01

Note: BLQ: Below Limit of Quantification; LOQ: Limit of Quantification; NMT: Not More Than.

Remarks: The above said sample of "BUTTER MILK" conforms to the specification laid down under Regulation 2.1.13(C) of Food Safety and standards (Food Products Standards & Food Additives) Regulations 2011, for the above tested parameters.



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TEST REPORT

ULR – TC620623000007335F

Date: 13.07.2023

Discipline : **Biological**

Group : **Food & Agricultural Products**

Sample No : **2307139**

Job Card No : **42686**

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 : **05.07.2023**

Test Completed On : **10.07.2023**


S.No	Test Parameters	Test Method	Result	Unit	Prescribed Standards as per 2.1.13.C of Food Products Standards & Food Additives Regulations 2011
Microbiology Parameters:					
1	Yeast & Mould	IS 5403: 1999 RA 2018	< 1	Cfu Per ml	NMT 100 Cfu Per ml
2	<i>Escherichia coli</i>	IS 5887 Part 1 : 1976 RA 2018	Absent	Per ml	Absent Per ml
3	<i>Coliform</i>	IS 5401 Part 1 : 2012 RA 2018	< 1	Cfu Per ml	NMT 100 Cfu Per ml
4	<i>Staphylococcus aureus</i>	IS 5887 Part 8 / Sec 1 2002 RA 2018	< 1	Cfu Per ml	NMT 100 Cfu Per ml
5	<i>Salmonella</i>	IS 5887 Part 3 : 1999 RA 2018	Absent	Per 25 ml	Absent Per 25 ml
6	<i>Listeria monocytogenes</i>	IS 14988 Part 1: 2020	Absent	Per 25 ml	Absent Per ml

Note: < 1 can be considered as absent, NMT: Not More Than.

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




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TEST REPORT

Report Number: MBT / CL / 42686 / 2023-2024

Date: 13.07.2023

PARTICULARS OF SAMPLE SUBMITTED

*Sample Described by customer as : BUTTER 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 : 2307139
Sample Type : BUTTER MILK
Sample Received Date : 05.07.2023
Sample Qty. Recd. : 170 ml x 4 No's
*Customer Reference : Letter Dated: 04.07.2023
*Batch No : 063.A1
*Packing Date : Nil
*Use By Date : 11 JUL 23
*Brand Name : "RAAJ"
Test Commenced On : 05.07.2023
Test Completed On : 12.07.2023

Note: *This information was provided by customer

TEST RESULTS:

S.No	Test Parameters	Test Method	Result	Unit	Prescribed Standards as per 2.1.13(C) of Food Products Standards & Food Additives Regulations 2011
1	Calcium as Ca	IS 5949:1990	104.2	mg/100g	---
2	Sodium	IS9497 : 1980	268.7	mg/100g	---
3	Phosphorus	AOAC 998.11, 21st Edition 2019	54.0	mg/100g	---

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Date: 13.07.2023

S.No	Test Parameters	Test Method	Result	Unit	Prescribed Standards as per 2.1.13(C) of Food Products Standards & Food Additives Regulations 2011
II Adulterants					
1	Maltotextrin	Manual of Methods of Analysis of Foods – Dairy and Dairy Products – FSSAI 2016	Absent	---	---
III Antibiotics / Veterinary Drug Residue					
1	Amoxicillin	MBT/CL/SOP/565	BLQ(LOQ:0.005)	mg/kg	---
2	Pencillin		BLQ(LOQ:0.005)	mg/kg	---
3	Cephapirin		BLQ(LOQ:0.005)	mg/kg	---
4	Sulfanilamide		BLQ(LOQ:0.005)	mg/kg	---
5	Sulfaguanidine		BLQ(LOQ:0.005)	mg/kg	---
IV Pesticide Residues					
1	Triacantanol	MBT/CL/SOP/568	BLQ(LOQ:0.01)	mg/kg	NMT 0.01

Note: BLQ: Below Limit of Quantification; LOQ: Limit of Quantification; NMT: Not More Than.

Remarks: The above said sample of "BUTTER MILK" conforms to the specification laid down under Regulation 2.1.13(C) of Food Safety and standards (Food Products Standards & Food Additives) Regulations 2011, for the above tested parameters.

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



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