

	<u>Karagya foods Pvt. Ltd.</u>	Doc No: KFPL/FSMS/CH/10	
		Issue Date: 01.01.2026	Issue No:01
		CERTIFICATE OF ANALYSIS (COA)	Rev Date- 00.00.0000

1. GENERAL INFORMATION

Parameter	Details
Product Name	A2 Cow Milk
Batch / Lot No.	25
Date of Expiry	27.07.2026
Date of Analysis	24.07.2026

2. PHYSICAL & CHEMICAL ANALYSIS

Sr. No.	Parameter	Unit	Specification	Result	Test Method
1	Appearance	-	Clean, Normal	Clean, Normal	Visual
2	Colour	-	yellowish / Creamish	yellowish	Visual
3	Odour	-	Pleasant	Pleasant	Sensory
4	Fat	%	Min. 4.0	4.1	Gerber Method (FSSAI manual milk & milk product)
5	Temperature	°C	Below 6°C	4°C	
6	CLR	°C	Min 28	29.5	(FSSAI manual milk & milk product)
7	SNF	%	Min8.5	8.6	(FSSAI manual milk & milk product)

8	Protein	%	Min. 2.8	2.9	Kjeldahl method / Paine's method
9	Acidity	% LA	Max 0.135	0.126	Titration
10	pH	-	6.5 – 6.8	6.7	pH Meter
11	Alcohol	-	Negative @75%	Negative	(FSSAI manual milk & milk product)
12	MBRT	hrs	Above 5 hrs	6hrs 30 min	FSSAI manual milk & milk product
13	Added Water	%	Nil	Nil	Indifoss machine
14	Urea	--	Absent	Absent	Indifoss machine
15	Sucrose	-	Absent	Absent	Indifoss machine
16	Maltodextrin	-	Absent	Absent	Indifoss machine
17	Ammonium sulphate	-	Absent	Absent	Indifoss machine
18	Glucose	-	Absent	Absent	Indifoss machine
19	Sorbitol	-	Absent	Absent	Indifoss machine
20	Melamine	-	Absent	Absent	Std Kit method
21	Sodium Chloride	-	Absent	Absent	Indifoss machine
22	Sodium Citrate	-	Absent	Absent	Indifoss machine
23	Starch	-	Absent	Absent	Indifoss machine
24	Hydrogen Peroxide	-	Absent	Absent	Indifoss machine
25	Formalin	-	Absent	Absent	Indifoss machine
26	Detergent	-	Absent	Absent	Indifoss machine
27	Sodium Carbonate	-	Absent	Absent	Indifoss machine
28	Sodium Bicarbonate	-	Absent	Absent	Indifoss machine
29	Vegetable oils with chemical emulsifier	-	Absent	Absent	Indifoss machine
30	NaOH	-	Absent	Absent	Indifoss machine

31	Any other chemical with IR absorbance	-	Absent	Not Detected	Indifoss machine
32	Phosphatase Test		Negative	Negative	(FSSAI manual milk & milk product
33	RTPCR		A2	A2	RTPCR machine (DNA sequencing)
34	Viscosity @4°C	sec	-	16.34	Pipetting method
35	Antibiotic	-	Negative	Negative	Standard kit method

Experiment No – 205

Sample ID
Raw Milk-24/07/2026

Sample Date
24/07/2026

Configuration
Multiple Configuration

DESCRIPTION

Test Type Species identification	Cq A 1 (Sample 1) 39.1	Target 1 Cow	Cq B 1 (Sample 1) 22.4	Target 2 Buffalo	Cow: Buffalo Ratio 99:01
Test Type Species identification	Cq A 2 (Sample 2) 22.8	Target 1 Cow	Cq B 2 (Sample 2) 37.8	Target 2 Buffalo	Cow: Buffalo Ratio 01:99
Test Type Species identification	Cq A 3 (Sample 3) 37.9	Target 1 Cow	Cq B 3 (Sample 3) 21.7	Target 2 Buffalo	Cow: Buffalo Ratio 90:10
Test Type A1/A2	Cq A 4 (Sample 1) 22.7	Target 1 A1	Cq B 4 (Sample 1) 38.9	Target 2 A2	A1:A2 Ratio 01:99
Test Type A1/A2	Cq A 5 (Sample 2) 24.1	Target 1 A1	Cq B 5 (Sample 2) 39.8	Target 2 A2	A1:A2 Ratio 01:99
Test Type A1/A2	Cq A 6 (Sample 3) 37.3	Target 1 A1	Cq B 6 (Sample 3) 22.4	Target 2 A2	A1:A2 Ratio 99:01

