



**National Referral Centre for Milk Quality and Safety**  
**ICAR- NATIONAL DAIRY RESEARCH INSTITUTE, KARNAL**



**Testing charges for the analysis of samples of milk and milk products at National Referral Center for Milk Quality and Safety (NRCMQS), ICAR, NDRI, Karnal.**

**A. Chemical Tests**

S. No.	Type of test	Testing charges (Rs.)
<b>Liquid Milk</b>		
1.	Detection of neutralizers	400
2.	Detection of starch	400
3.	Detection of cane sugar	400
4.	Detection of hydrogen peroxide	400
5.	Detection of formaldehyde	400
6.	Detection of urea	400
7.	Detection of detergent	400
8.	Detection of Maltodextrin	400
9.	Detection of nitrate	400
10.	Detection of Vegetable oil	500
11.	Detection of Common salt	400
12.	Detection of Sulfate	400
13.	Detection of Ammonium salt	400
14.	Detection of boric acid	400
15.	Detection of salicylic acid	400
16.	Titrateable Acidity (as % lactic acid)	500
17.	Fat by Gerber method	500
18.	Fat by Reference method	800
19.	Solids-not-fat (SNF) by lactometer	500
20.	Solids-not-fat (SNF) by gravimetric method	1300
21.	Total solids by gravimetric method	600
22.	Crude Protein by nitrogen estimation	850
23.	Non-Protein Nitrogen	950
24.	True Protein nitrogen	1500
25.	Urea estimation	1000



**National Referral Centre for Milk Quality and Safety**  
**ICAR- NATIONAL DAIRY RESEARCH INSTITUTE, KARNAL**



26.	Lactose estimation	1000
27.	Ash estimation	650
28.	Lactate estimation	2500
<b>Butter</b>		
29.	Moisture	600
30.	Fat	800
31.	Salt (% as NaCl)	1000
32.	Curd	2000
33.	BR reading at 40°C	400
<b>Ghee</b>		
34.	Moisture content	600
35.	BR reading at 40°C	400
36.	Acidity as free fatty acids ( % oleic acid)	500
37.	Reichert-Meissl value	800
38.	Polenske Value	800
39.	Reichert-Meissl value + Polenske Value	1200
40.	Detection of Vanaspati (hydrogenated vegetable oil) in ghee by Baudouin test	400
41.	Detection of vegetable oil in ghee using NDRI Developed method	500
42.	Peroxide value	600
43.	Iodine value	600
44.	Saponification Value	600
45.	Cholesterol	1000
46.	Fatty acid composition	3000
47.	Trans fat	2500
<b>Whole Milk Powder / Skimmed Milk Powder</b>		
48.	Moisture, %	600
49.	Titrateable acidity in % (lactic acid)	500
50.	Fat (%) by Gerber method (in WMP only)	600
51.	Fat (%) by Reference method	800
52.	Total Ash (%), on dry basis	650



**National Referral Centre for Milk Quality and Safety**  
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53.	Protein by nitrogen estimation	850
54.	Non-protein nitrogen	950
55.	Casein Nitrogen	1000
56.	Whey Protein	1000
57.	Lactose	1200
58.	Lactate	2500
59.	Insolubility index	600
60.	Dispersibility	700
61.	Sinkability	500
62.	Wettability,	500
63.	Particle Size	700
64.	Angle of Repose	500
65.	Scorch Particles	500
<b>Dairy Whitener</b>		
66.	Moisture, %	600
67.	Titrateable acidity in % (lactic acid)	500
68.	Fat (%) by Gerber method	600
69.	Fat (%) by Reference method	800
70.	Total Ash (%), on dry basis	1400
71.	Protein by nitrogen estimation	850
72.	Non-protein nitrogen	950
73.	Lactose	1200
74.	Lactate	2500
75.	Insolubility index	600
76.	Sucrose	1500
77.	Scorch Particles	500
<b>Cheese</b>		
78.	Moisture%	600
79.	Salt% (added sodium chloride)	1000
80.	Fat% (on dry basis)	1400



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<b>Ice-Cream</b>		
81.	Total Solids	600
82.	Overrun	600
83.	Fat (%)	800
84.	Sucrose	1500
85.	Protein	850
<b>Paneer, Channa, Khoa</b>		
86.	Moisture%	600
87.	Fat% (on dry basis)	1400
88.	Detection of starch	500
<b>Evaporated/Condensed milk</b>		
89.	Total Solids	600
90.	Fat (%)	800
91.	Sucrose	1500
92.	Protein	850
93.	Lactose	1200
<b>LASSI/DAHI/YOGHURT/FLAVOURED MILK</b>		
94.	Total Solids (%)	600
95.	Fat (%)	800
96.	Acidity (% lactic acid)	500
97.	Sucrose (%)	1500
98.	Detection of Maltodextrin	400
<b>MISCELLANEOUS TEST</b>		
99.	Lactose in low lactose milk product	2500
100.	Aflatoxin M1 in milk and milk products	3000
101.	IgG estimation in colostrum	5000
102.	IgA estimation in human milk	5000
103.	Any one mineral element in various matrices (Please enquire before sending sample)	1000



**Equipment Usage charges**

S. No.	Name of equipment	Equipment usage charges	
		Inside Users (For ICAR-NDRI)	Outside users
1.	Particle Size Analyzer (size only)	500	1000
2.	Particle Size Analyzer (size & zeta potential) – per hour	1200	2500
3.	FTIR (per hour)	1000	2000
4.	GC-MS (per hour)	1500	3000
5.	Atomic absorption spectrophotometer – flame mode (per hour)	1500	3000
6.	Atomic absorption spectrophotometer – graphite mode (per hour)	1500	3000
7.	Lyophilizer (per hour)	500	1000
8.	Protein estimation by Kjeldahl apparatus (per sample )*	200	400
9.	Digital refractometer (per hour)	500	1000
10.	HPLC (per hour)*	1000	2000
11.	Ultra-filtration unit (per hour)	1000	2000

\*User has to arrange for Consumables



### B. Microbiological Tests

S. No.	Description of test	Testing Procedure /Reference	Product description	Rate per sample (Rs.)
1.	Total Viable Count	IS:5402	<ol style="list-style-type: none"><li>1. Pasteurized milk/ boiled milk/ flavored milk, Pasteurized cream</li><li>2. Sweetened condensed milk</li><li>3. Pasteurized butter</li><li>4. Milk powder: SMP, PSMP, Dairy Whitener, cream powder, ice cream mix powder, lactose, whey based powder, butter milk powder, casein powder,</li><li>5. Infant milk foods, Infant formulae, Infant milk substitute, Follow-up formula,</li><li>6. Cereal based complementary foods,</li><li>7. Ice-cream, frozen dessert, milk lolly, ice candy</li><li>8. Processed cheese/ cheese spread</li><li>9. Paneer/ Chhana/ Chhana based sweets</li><li>10. Khoa/ Khoa based sweets</li></ol>	1000
2	Yeast and Mold Count	IS: 5403	<ol style="list-style-type: none"><li>1. Sweetened condensed milk</li><li>2. Pasteurized butter</li><li>3. Milk powder: SMP, PSMP, Dairy Whitener, cream powder, ice cream mix powder, lactose, whey based powder, butter milk powder, casein powder</li><li>4. Infant milk foods, Infant formulae, Infant milk substitute, Follow-up formula,</li><li>5. Cereal based complementary foods,</li><li>6. All other cheeses categories including fresh cheese/ cheddar cheese/ cottage/ soft/semi soft etc.</li><li>7. Fermented milk products,</li><li>8. Paneer/ Chhana/ Chhana based sweets,</li><li>9. Khoa/ Khoa based sweets</li></ol>	1000
3.	Total Coliforms	IS: 5401: Part - 1	<ol style="list-style-type: none"><li>1. Pasteurized milk/ boiled milk/ flavored milk, Pasteurized cream,</li><li>2. Sweetened condensed milk</li></ol>	1000



**National Referral Centre for Milk Quality and Safety**  
**ICAR- NATIONAL DAIRY RESEARCH INSTITUTE, KARNAL**



			<ol style="list-style-type: none"> <li>3. Pasteurized butter</li> <li>4. Milk powder: SMP, PSMP, Dairy Whitener, cream powder, ice cream mix powder, lactose, whey based powder, butter milk powder, casein powder</li> <li>5. Follow-up formula,</li> <li>6. Cereal based complementary foods,</li> <li>7. Ice-cream, frozen dessert, milk lolly, ice candy,</li> <li>8. Processed cheese/ cheese spread,</li> <li>9. All other cheeses categories including fresh cheese/ cheddar cheese/ cottage/ soft/semi soft etc.,</li> <li>10. Fermented milk products,</li> <li>11. Paneer/ Chhana/ Chhana based sweets</li> <li>12. Khoa/ Khoa based sweets</li> </ol>	
4	Enterobacteriaceae	ISO: 21528-1 & 21528-2	1. Infant Milk Food, Infant Formulae, Infant Milk Substitute	1000
5	<i>Staphylococcus aureus</i> (Coagulase positive)	IS: 5887: Part - 8 (Sec 1 & 2)	<ol style="list-style-type: none"> <li>1. Pasteurized butter</li> <li>2. Sweetened condensed milk</li> <li>3. Pasteurized butter,</li> <li>4. Milk powder: SMP, PSMP, Dairy Whitener, cream powder, ice cream mix powder, lactose, whey based powder, butter milk powder, casein powder,</li> <li>5. Infant milk foods, Infant formulae, Infant milk substitute, Follow-up formula,</li> <li>6. Cereal based complementary foods,</li> <li>7. Ice-cream, frozen dessert, milk lolly, ice candy,</li> <li>8. Processed cheese/ cheese spread,</li> <li>9. All other cheeses categories including fresh cheese/ cheddar cheese/ cottage/ soft/semi soft etc.</li> <li>10. Fermented milk products,</li> <li>11. Paneer/ Chhana/ Chhana based sweets,</li> <li>12. Khoa/ Khoa based sweets</li> </ol>	1000



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6.	<i>E.coli</i>	IS: 5887: Part-1	<ol style="list-style-type: none"><li>1. Pasteurized butter</li><li>2. Pasteurized butter</li><li>3. Infant milk substitute, Follow-up formula,</li><li>4. Cereal based complementary foods,</li><li>5. Ice-cream, frozen dessert, milk lolly, ice candy,</li><li>6. All other cheeses categories including fresh cheese/ cheddar cheese/ cottage/ soft/semi soft etc.,</li><li>7. Fermented milk products,</li><li>8. Paneer / Chhana/ Chhana based sweets,</li><li>9. Khoa / Khoa based sweets</li></ol>	2000
7.	Salmonella/ Shigella	IS: 5887: Part-3	<ol style="list-style-type: none"><li>1. Pasteurized milk, boiled milk/ flavored milk, Pasteurized cream,</li><li>2. Sweetened condensed milk,</li><li>3. Pasteurized butter,</li><li>4. Sweetened condensed milk,</li><li>5. Pasteurized butter,</li><li>6. Milk powder: SMP, PSMP, Dairy Whitener, cream powder, ice cream mix powder, lactose, whey based powder, butter milk powder, casein powder,</li><li>7. Infant milk foods, Infant formulae, Infant milk substitute, Follow-up formula.</li><li>8. Cereal based complementary foods,</li><li>9. Ice-cream, frozen dessert, milk lolly, ice candy,</li><li>10. Processed cheese/ cheese spread</li><li>11. All other cheeses categories including fresh cheese/ cheddar cheese/ cottage/ soft/semi soft etc.</li><li>12. Fermented milk products</li><li>13. Paneer/ Chhana/ Chhana based sweets,</li><li>14. Khoa/ Khoa based sweets</li></ol>	2000
8.	Sulphite Reducing Clostridia (SRC)	ISO: 15213	<ol style="list-style-type: none"><li>1. Milk powder: SMP, PSMP, Dairy Whitener, cream powder, ice cream mix powder, lactose, whey based powder, butter milk powder, casein powder,</li><li>2. Infant milk foods, Infant formulae, Infant</li></ol>	2000





**National Referral Centre for Milk Quality and Safety**  
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			milk substitute, Follow-up formula, 3. Cereal based complementary foods	
9	<i>Listeria monocytogenes</i>	IS: 14988: Part-1 (7 days test )	1. Pasteurized milk/ boiled milk/ flavored milk, Pasteurized cream, 2. Sweetened condensed milk, 3. Pasteurized butter, 4. Sweetened condensed milk, 5. Pasteurized butter, 6. Milk powder: SMP, PSMP, Dairy Whitener, cream powder, ice cream mix powder, lactose, whey based powder, butter milk powder, casein powder, 7. Infant milk foods, Infant formulae, Infant milk substitute, Follow-up formula, 8. Cereal based complementary foods, 9. Ice-cream, frozen dessert, milk lolly, ice candy, 10. Processed cheese/ cheese spread, 11. All other cheeses categories including fresh cheese/ cheddar cheese/ cottage/ soft/semi soft etc. 12. Fermented milk products Paneer/ Chhana/ Chhana based sweets, Khoa/ Khoa based sweets	2000
		Lab developed method (one day test)	Pasteurized milk/ boiled milk/ flavored milk,	2000
10.	<i>Bacillus cereus</i>	IS: 5887: Part- 6	1. Milk powder: SMP, PSMP, Dairy Whitener, cream powder, ice cream mix powder, lactose, whey based powder, butter milk powder, casein powder, 2. Infant milk foods, Infant formulae, Infant milk substitute, Follow-up formula, 3. Cereal based complementary foods	2000
11.	Commercial sterility test	IS: 4238/ IS: 4884	1. Sterilized milk/ UHT milk 2. Sterilized cream/ UHT cream	2000
12.	<i>Enterobacter sakazakii</i>	ISO/ TS :22964	1. Infant Milk Food, Infant Formulae, Infant Milk Substitutes	2000

**Please add GST @18% in the above charges**



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The fee is required to be deposited in the form of Demand Draft in favour of: **ICAR unit NDRI - NAHEP, Karnal**

The fee can also be transferred through NEFT. The details are as follows:

**Account Details:**

Name of bank : State Bank of India  
Account name : ICAR unit NDRI - NAHEP, Karnal  
Account number : 37610454709  
Type of account : Current account  
IFSC Code : SBIN0050326  
MICR Code : 132002123

GST No. of ICAR-NDRI: 06AAHFN8229K1ZW