



GOVERNMENT OF KERALA
DAIRY DEVELOPMENT DEPARTMENT
STATE DAIRY LABORATORY



TC-7168

**Rates for chemical Analysis for various parameters of milk
and milk Products**

Sl. No.	Test Parameters	Charges/sample (Rupees)
I	MILK	
Compositional Parameters		
1	Fat	445
2	SNF/TS	445
3	Total Solids/SNF	445
4	Acidity	390
5	Alcohol test	85
6	* Alizarin Alcohol Test	85
Adulterants In Milk		
1	Sugar	390
2	Starch	390
3	Urea	390
4	Maltodextrin	390
5	Added Vegetable Oil	115
6	Added SMP	115
7	Glucose	115
Preservatives In Milk		
1	Formaldehyde	445
2	Hydrogen Peroxide	445
3	Boric Acid	445

Sl. No.	Test Parameters	Charges/sample (Rupees)
Neutralisers in Milk		
1	Carbonates and bi-carbonates	445
2	Alkalinity Of Ash	115
II	MILK POWDER	
1	Fat %	445
2	Milk Protein	555
3	Acidity	390
4	Moisture	445
5	Solubility Index	280
6	Total Ash	445
III	CURD /DAHI	
1	Fat	445
2	Total Solids	445
3	Acidity	390
4	*Starch	390
5	*Malto dextrin	390
IV	YOGHURT	
1	Fat	445
2	Total Solids	445
3	Acidity	390
4	*Starch	390
5	*Malto dextrin	390
6	*Milk Protein	555

7	*Sucrose	555
V	BUTTER	
1	Fat %	445
2	Curd	445
3	Salt %	445
4	Moisture %	445
VI	GHEE	
1	RM Value,PV Value	555
2	FFA (% oleic Acid)	555
3	Moisture %	445
4	Baudoin Test	335
5	BR Reading	335
VII	ICE CREAM	
1	Total Solids	445
2	Acidity	390
3	Weight/ Volume	225
4	Milk Fat %	445
5	Milk Protein	555
VIII	PANEER	
1	Milk Fat	445
2	Protein	555
3	Total Solids	445
4	*Malto Dextrin	390
5	Moisture %	445
6	*Starch	390



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Rates for Microbiological Analysis for various parameters of milk and milk Products

Sl. No.	Test Parameters	Charges/sample (Rupees)	
		Conventional	Rapid
	Microbial Parameters		
1	SPC	445	665
2	Coliform	445	665
3	Yeast and Mould	665	830
4	E.coli	445	665
5	Staph. aureus	665	830
6	Salmonella	665	830
7	* Shigella	665	830
8	Listeria monocytogenes	665	1105
9	Anaerobic pathogens (Clostridium)	665	790
10	Bacillus cerus	555	Nil
11	*MBRT	60	Nil
12	*Resazurin Test	60	Nil
13	*Gram's Staining	60	Nil
14	*IMVIC Test	170	Nil
15	*Air Quality	225	Nil

Note: * Not covered under NABL Scope

Joint Director / Quality Manager


SUJAI KUMAR
Joint Director (SDL)
Directorate of Dairy Development Department
Pattom, Thiruvananthapuram - 04

Rates for Physical and Chemical analysis of water at
State Dairy Laboratory, Dairy Development Department

Sl.NO.	Test Parameters	Charges (Rupees)
1	Ph	115
2	Total Dissolved Solids	280
3	Hardness	280
4	Alkalinity	280
5	Colour	115
6	Turbidity	115
7	Chlorides	200
8	Fluorides	200
9	Nitrates	200
10	Sulphates	200
11	Manganese	200
12	Calcium	200
13	Copper	400
14	Iron	400
15	Magnesium	400
16	Total Coliforms (MPN method) including Total Coliforms, e.coli and Thermotolerant Coliforms	500
17	Faecal streptococci	445
18	Salmonella	665
19	Pseudomonas	665
20	Clostridium	665
21	Aerobic plate count	445
22	Staphylococcus aureus	665
	Total	7635

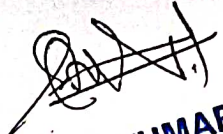
Total Rupees Three Thousand Five Hundred and Eighty Five

NOTE : The required quantity for performing all the above Tests is 3.0 litres


SUJAI KUMAR.C
 Joint Director (SDL)
 Directorate of Dairy Development Department
 Pattom, Thiruvananthapuram - 04

Rates for analysis of Cattle feed and Feed Ingredients
at State Dairy Laboratory

Sl No.	Parameters	Fees
1	Crude Fat (ether extract)	445
2	Crude Fibre	445
3	Crude Protein	445
4	Acid Insoluble Ash	445
5	Moisture	225
6	Urea	445
7	Aflatoxin B1	550
8	Salt	445
9	calcium	445
10	Total Phosphorus	445


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Joint Director (SDL)
Directorate of Dairy Development Department
Pattom, Thiruvananthapuram - 04

Microbiology Division

Laboratory is having a well-established Microbiology division following all the norms laid out by ISO 17025: 2017 International standards with professionally qualified competent personnels to handle the analysis of Milk, Milk Products & Water

- Total Plate count • Yeast & Mold count • Total Coliform count
- E.coli • Listeria monocytogenes • Salmonella • Staphylococcus aureus • Faecal streptococci • Pseudomonas aeruginosa
- Sulphite Reducing anaerobs • Bacillus cereus

Methodologies

State Dairy Laboratory follows the standard analytical procedures acceptable by Regulatory Authorities, including those published by:

- Bureau of Indian Standards (BIS)
- International Organisation for Standardisation(ISO)
- Association of Official Analytical Chemists(AOAC)
- American Public Health Association(APHA)
- The methods published by National Dairy Research Institute after validation
- In-House validated and Approved Methods

Training

State Dairy laboratory also offers hands on training to students and working professionals applying the latest techniques in chemical and microbiology divisions .

STATE DAIRY LABORATORY

Dairy Development Department
Pattom, Thiruvananthapuram-695004

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DESIGNED BY : AHD MEDIA DIVISION,
LIVESTOCK MANAGEMENT TRAINING CENTRE,KUDAPANAKUNNU,TVM



STATE DAIRY LABORATORY (SDL)

Professional Accurate Reliable

Accredited by NABL as per ISO 17025:2017

An Initiative of Dairy Development Department

Core Mission

We are committed to provide services of excellence in the analysis / testing of milk, milk products, water and cattle feed as per international standards by adopting good professional practices, skill, experience and technical knowledge of the personnel.



State Dairy Laboratory (SDL- NABL accredited as per ISO 17025:2017)

A multi-disciplinary Laboratory established under the Dairy Development Department, Kerala. SDL offers a wide range of reliable and accurate analytical testing services in the field of Milk & Milk products, Water and Animal Feed and Feed Ingredients assuring the quality of these products supplied across the State. SDL follows a Quality Management System based on ISO 17025: 2017 to ensure the Operational Integrity and Confidentiality.

SDL is equipped with State of the Art equipments to cater the various chemical and microbiological disciplines. Major equipments handled includes HPLC, GC, UV Spectrophotometer, AAS, RTPCR, Automatic Fiber Extraction Unit, Automatic Fat extraction Unit, VIDAS- Rapid Bacterial Enumeration System.

MAJOR AREAS OF SERVICE

Chemical Division

Milk & Milk Products

- Nutritional Analysis as per FSSA Standards
- Detection of adulterants, Preservatives and Neutralisers
- Quantitative analysis of Aflatoxin M1 in Milk & Milk Products using HPLC

Animal Feed & Feed Ingredients

- Proximate analysis including Crude Protein, Crude Fiber, Ether Extract, Moisture, Total Ash, Acid Insoluble Ash, Calcium, Phosphorus, Salt
- Quantification of Urea
- Mineral Analysis
- Quantitative analysis of Aflatoxin B1 using HPLC

Water including Bore Well, Well water, Open well, Treated Water processed industry water, ETP water and Packaged Drinking water

- pH • Colour • Hardness • Total Dissolved Solids
- Total Alkalinity • Mineral Oil • Oil & Grease
- Available Chlorine • Chlorides, Sulphates, Nitrates, Fluoride and Metals including Iron, Copper, Magnesium, Zinc, Manganese, Calcium, etc.

