



# National Institute of Food Technology, Entrepreneurship and Management, Thanjavur (NIFTEM-T)

(An Institute of National Importance; formerly Indian Institute of Food Processing Technology-IIFPT)

Ministry of Food Processing Industries, Government of India, Pudukkottai Road, Thanjavur - 613 005, Tamil Nadu



M O F P I

## Food Testing Laboratory

S.No.	Parameters	Testing Charge <sup>†</sup> Per Sample (Rs.)	S.No.	Parameters	Testing Charge <sup>†</sup> Per Sample (Rs.)
<b>Proximate / Nutritional Analysis</b>			<b>GC-MS/MS Analysis</b>		
1.	Moisture	165.00	41.	Phytochemical Screening	3300.00
2.	Fat	715.00	42.	Pesticide Residual Analysis	5500.00
3.	Protein	715.00	<b>Ion Chromatography Analysis</b>		
4.	Fiber	880.00	43.	Ion Chromatography (Fluoride, Chloride, Bromide, Nitrate, Phosphate, Sulphate)	3300.00
5.	Ash	385.00	<b>H<sup>1</sup>-NMR Analysis</b>		
6.	Carbohydrate	1100.00	44.	Proton NMR (CDCl <sub>3</sub> )	1650.00
7.	Energy	165.00	45.	Proton NMR (DMSO Exchange)	1650.00
<b>ICP-OES Mineral Analysis</b>			46.	Proton NMR (D <sub>2</sub> O Exchange)	1650.00
8.	Minerals (Na, K, Mg, Ca, Fe, Mn, Zn, Se, Cu, S, Mo, P etc.)	825.00 per Element	<b>Solid Phase Extraction</b>		
<b>ICP-MS Mineral Analysis (upto Parts Per Trillion Level)</b>			47.	Polar or Non-Polar Sample Purification & Extraction	1100.00
9.	Heavy Metal Analysis (Hg, Pb, As & Cd)	880.00 per Element	<b>Water Quality Analysis</b>		
<b>HPLC Analysis</b>			48.	pH	385.00
10.	Vitamin B Group	2750.00	49.	Total Dissolved Solids	385.00
11.	Folic Acid	2750.00	50.	Total Hardness	385.00
12.	Vitamin A, D, E & K (Per Vitamin/Per Sub-type)	2750.00	51.	Chloride Content	385.00
13.	Aflatoxin (B1, B2, G1 & G2)	2750.00	52.	Acidity	385.00
14.	Aflatoxin M1	2750.00	53.	Color	385.00
15.	Ochrotoxin	2750.00	54.	Taste	385.00
16.	Melamine Residual Analysis	2750.00	55.	Odour	385.00
17.	Antibiotic Residual Analysis (2 residues) (chloram & tetracy)	4400.00	56.	Turbidity	385.00
18.	Sugar Profile (Glucose, Fructose, Maltose, Lactose & Galactose)	2750.00	57.	Titration Acidity	550.00
19.	Phenolic or Flavonoid Compound Screening (Gallic acid, Caffeic acid, Rutin, Quercetin & Ferulic acid)	2750.00	58.	Residue Free Chlorine	550.00
20.	Phenolic Compound-Quantification/per compound	2750.00	59.	Oil & Grease	715.00
21.	Curcuminoids	2750.00	<b>Oil Quality Analysis</b>		
22.	Capsaicinoids	2750.00	60.	Free Fatty Acid	550.00
23.	Organic Acids (Oxalic, Maleic, Tartaric, Ferulic & Succinic Acid)	2750.00	61.	Iodine Number	550.00
24.	Cholesterol	2750.00	62.	Acid Number	550.00
25.	Preservatives	2750.00	63.	Saponification Number	550.00
26.	Hydroxymethylfurfural (HMF)	2750.00	64.	Peroxide Value	550.00
27.	Food Additives - Total Dye	2750.00	65.	Specific Gravity	385.00
<b>Amino Acid Analyzer (AAA)</b>			66.	Brix Value	385.00
28.	Amino Acid (per AA / Sample)	1100.00	67.	Unsaponifiable Matter	550.00
29.	Amino Acid (17 AA as Package)	11000.00	<b>Paddy / Rice Physical Analysis Testing Charges</b>		
<b>Preparative HPLC Analysis</b>			68.	Paddy	385.00
30.	Per Sample / Fraction (Maximum 3 fraction)	6600.00	69.	Rice	385.00
<b>FTIR Analysis</b>			70.	Bran	385.00
31.	Functional Compound Analysis	550.00	71.	Wheat	385.00
<b>LC-MS/MS Analysis</b>			<b>Paddy / Rice Quality Analysis</b>		
32.	Colour	5500.00	72.	Milling Test	1100.00
33.	Pesticides Residues-Screening (for each group)	5500.00	73.	Cooking Test	1100.00
34.	Pesticide Residues- Quantification Refer : 38 & 39		74.	Parboiling & Milling	1650.00
<b>CHNS/O Analysis</b>			75.	L, B, T Measurement	550.00
35.	CHNS/O Analysis (Carbon, Hydrogen, Nitrogen & Sulphur)	3850.00	76.	Surface Area of Brown Rice & Categorization	550.00
36.	Oxygen	3850.00	77.	1000 Grain Weight (Paddy & Brown Rice)	550.00
<b>GC-MS Analysis</b>			78.	Shelling only (upto 300 gm)	385.00
37.	Pesticide Residues-Screening (for Chlorine & Phosphorous Containing Residues)	5500.00/group	79.	Polishing of Brown Rice (upto 250 gm)	385.00
38.	Pesticide Residues-Quantification (for Chlorine & Phosphorous Containing Residues)	11000.00/group	80.	Grain Pulverizing (upto 25 gm)	275.00
39.	Single Pesticide Residue Quantification	2500.00	81.	Bulk Density	275.00
40.	Fatty Acid Profile	3300.00	82.	Angle of Repose	275.00
			83.	Sun Checks	275.00
			84.	Rice Color	275.00



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S.No.	Parameters	Testing Charge* Per Sample (Rs.)
85.	Rice Aroma	275.00
86.	Rice Hardness	275.00
87.	Chalkiness Index	385.00
88.	GT-Alkali Score	385.00
89.	Gel Consistency	385.00
90.	EMCs	330.00
91.	Water Uptake Ratio (W 80° C / 98° C)	550.00
92.	Rapid Visco Analyzer	2200.00
93.	Texture Analysis	2200.00
94.	Amylose	1100.00
95.	Uric Acid (UV Method)	1100.00
96.	Insoluble Amylose	2200.00
97.	Dietary fiber	6000.00
<b>Color Quest</b>		
98.	L*a*b value	550.00
<b>Polarimeter</b>		
99.	Optical Rotation	550.00
<b>Microbial Analysis</b>		
100.	Total Plate Count	1100.00
101.	Yeast & Mould Count	1100.00
102.	Total Coliforms	1100.00
103.	<i>E. coli</i> Screening	1100.00
104.	<i>Salmonella</i> sp. Screening	1100.00
105.	<i>Staphylococcus</i> sp. Screening	1100.00
106.	<i>Shigella</i> sp. Screening	1100.00
107.	<i>Listeria</i> sp. Screening	1100.00
108.	<i>Clostridium</i> sp. Screening	1100.00
109.	<i>Vibrio</i> sp. Screening	1100.00
110.	Sulphite Reducing Anaerobes Screening ( <i>Clostridia</i> )	1100.00
111.	<i>Pseudomonas aeruginosa</i> Screening	1100.00
112.	<i>Bacillus cereus</i> Count	1100.00
113.	Antimicrobial Activity	1100.00/Strain/Sample
114.	SDS-PAGE Electrophoresis	8683.00/Sample
<b>Automated Microbial Identification</b>		
115.	Identification of gram-positive bacteria	1500.00
116.	Identification of gram-negative bacteria	1500.00
117.	Identification of <i>Bacillus</i> group bacteria	2000.00
118.	Identification of yeast	2000.00
119.	Identification of anaerobic bacteria	2500.00
120.	Detection of <i>Salmonella</i>	1200.00
121.	Detection of <i>Staphylococcus aureus</i>	1500.00
122.	Detection of <i>Listeria monocytogenes</i>	1200.00
123.	Enumeration of Enterobacteria	2000.00
124.	Enumeration of <i>Staphylococcus aureus</i>	2000.00

S.No.	Parameters	Testing Charge* Per Sample (Rs.)
125.	Enumeration of aerobic mesophilic total flora	1600.00
126.	Enumeration of <i>Bacillus cereus</i>	1800.00
127.	Enumeration of <i>Escherichia coli</i>	1500.00
128.	Enumeration of Yeast and Mold	1700.00
129.	Enumeration of total coliform	1200.00
<b>GMO Analysis</b>		
1.	GMO – 35S & NOST (Qualitative)	5500.00
2.	GMO – 35S & NOST (Quantitative)	7500.00
<b>Food Quality Analysis</b>		
130.	Starch	1100.00
131.	Reducing Sugar	1100.00
132.	Sucrose	1100.00
133.	Adulteration Test for Food Product	385.00 / Test
134.	Water Activity	715.00
135.	Volatile Oil	550.00
136.	Sand Silica (Acid Insoluble Ash)	385.00
137.	Total Solids	550.00
138.	Soluble Solids	550.00
139.	Water Insoluble Ash	330.00
140.	Hydrocyanic Acid	550.00
141.	Sulphur-di-oxide	550.00
142.	Organoleptic Evaluation	715.00
143.	Lycopene	1100.00
144.	Sulphated Ash	550.00
145.	Insect Infestation	550.00
146.	Vitamin C	1100.00
147.	Gluten	550.00
148.	Alcoholic Acidity	385.00
149.	Microscopical Identification	385.00
150.	SNF (Solid Not Fat)	550.00
<b>Phyto - Chemical Analysis</b>		
151.	Phytochemical Screening	1100.00
152.	Total Phenolics	1100.00
153.	Total Flavonoids	1100.00
154.	Antioxidant Activity by DPPH	1100.00
155.	Antioxidant Activity by FRAP	1100.00
156.	Water Soluble Extracts	385.00
157.	Alcohol Soluble Extracts	385.00
158.	Fluorescence Analysis	385.00
<b>Testing of Paper, Paper Board and Corrugated Fiber Board</b>		
1.	Bursting strength	500.00
2.	Burst index	650.00
3.	Burst factor	650.00

\*Extra 18% GST will be charged for all the above analysis charges. The testing charges may be paid as cash or DD in favour of "The Director, NIFTEM-T, Thanjavur" payable at Thanjavur.

#For queries, please write to [cmnsp@iifpt.edu.in](mailto:cmnsp@iifpt.edu.in).

Sample size required for analysis: Liquid (Min. 500 ml) and Solid (Min. 400 g)

For further details, please contact:

The Director

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सत्यमेव जयते



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Computational Modeling and Nanoscale Processing Unit#		
S.No.	Facility	Charges (Rs*)
1.	Glycemic index	44000.00
2.	HPLC	2750.00
3.	Differential Scanning Calorimetry (DSC)	2000.00/h (up to 2 samples)
4.	Microplate reader	500.00
<b>Scanning Electron Microscope (SEM)</b>		
5.	a. Basic	1800.00
	b. With EDAX	3000.00
	c. With critical point dryer	4800.00
	d. With STEM detector	6600.00
<b>Powder X-Ray Diffraction</b>		
6.	a. Basic	1500.00
	b. Phase identification and quantification	2000.00
	c. 3D crystal structure	500.00
7.	ED-XRF (for subsequent elements in same system Rs. 200/-)	2500.00 (up to 5 elements)
<b>Microscopy (per sample)</b>		
8.	a. Fluorescence microscope	1500.00
	b. Polarized microscope	1500.00
9.	Liposome extruder	3000.00/h
10.	Freeze dryer (sample equivalent to 100 ml)	600.00
11.	Microfluidizer	3000.00/h

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