



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 [†] Per Sample (Rs.)
Proximate / Nutritional Analysis		
1.	Moisture	165.00
2.	Fat	715.00
3.	Protein	715.00
4.	Fiber	880.00
5.	Ash	385.00
6.	Carbohydrate	1100.00
7.	Energy	165.00
ICP-OES Mineral Analysis		
8.	Minerals (Na, K, Mg, Ca, Fe, Mn, Zn, Se, Cu, S, Mo, P etc.)	825.00 per Element
ICP-MS Mineral Analysis (upto Parts Per Trillion Level)		
9.	Heavy Metal Analysis (Hg, Pb, As & Cd)	880.00 per Element
HPLC Analysis		
10.	Vitamin B Group	2750.00
11.	Folic Acid	2750.00
12.	Vitamin A, D, E & K (Per Vitamin/Per Sub-type)	2750.00
13.	Aflatoxin (B1, B2, G1 & G2)	2750.00
14.	Aflatoxin M1	2750.00
15.	Ochrotoxin	2750.00
16.	Melamine Residual Analysis	2750.00
17.	Antibiotic Residual Analysis (2 residues) (chloram & tetracy)	4400.00
18.	Sugar Profile (Glucose, Fructose, Maltose, Lactose & Galactose)	2750.00
19.	Phenolic or Flavonoid Compound Screening (Gallic acid, Caffeic acid, Rutin, Quercetin & Ferulic acid)	2750.00
20.	Phenolic Compound-Quantification/per compound	2750.00
21.	Curcuminoids	2750.00
22.	Capsaicinoids	2750.00
23.	Organic Acids (Oxalic, Maleic, Tartaric, Ferulic & Succinic Acid)	2750.00
24.	Cholesterol	2750.00
25.	Preservatives	2750.00
26.	Hydroxymethylfurfural (HMF)	2750.00
27.	Food Additives - Total Dye	2750.00
Amino Acid Analyzer (AAA)		
28.	Amino Acid (per AA / Sample)	1100.00
29.	Amino Acid (17 AA as Package)	11000.00
Preparative HPLC Analysis		
30.	Per Sample / Fraction (Maximum 3 fraction)	6600.00
FTIR Analysis		
31.	Functional Compound Analysis	550.00
LC-MS/MS Analysis		
32.	Colour	5500.00
33.	Pesticides Residues-Screening (for each group)	5500.00
34.	Pesticide Residues- Quantification Refer : 38 & 39	
CHNS/O Analysis		
35.	CHNS/O Analysis (Carbon, Hydrogen, Nitrogen & Sulphur)	3850.00
36.	Oxygen	3850.00
GC-MS Analysis		
37.	Pesticide Residues-Screening (for Chlorine & Phosphorous Containing Residues)	5500.00/group
38.	Pesticide Residues-Quantification (for Chlorine & Phosphorous Containing Residues)	11000.00/group
39.	Single Pesticide Residue Quantification	2500.00
40.	Fatty Acid Profile	3300.00

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GC-MS/MS Analysis		
41.	Phytochemical Screening	3300.00
42.	Pesticide Residual Analysis	5500.00
Ion Chromatography Analysis		
43.	Ion Chromatography (Fluoride, Chloride, Bromide, Nitrate, Phosphate, Sulphate)	3300.00
H¹-NMR Analysis		
44.	Proton NMR (CDCl ₃)	1650.00
45.	Proton NMR (DMSO Exchange)	1650.00
46.	Proton NMR (D ₂ O Exchange)	1650.00
Solid Phase Extraction		
47.	Polar or Non-Polar Sample Purification & Extraction	1100.00
Water Quality Analysis		
48.	pH	385.00
49.	Total Dissolved Solids	385.00
50.	Total Hardness	385.00
51.	Chloride Content	385.00
52.	Acidity	385.00
53.	Color	385.00
54.	Taste	385.00
55.	Odour	385.00
56.	Turbidity	385.00
57.	Titration Acidity	550.00
58.	Residue Free Chlorine	550.00
59.	Oil & Grease	715.00
Oil Quality Analysis		
60.	Free Fatty Acid	550.00
61.	Iodine Number	550.00
62.	Acid Number	550.00
63.	Saponification Number	550.00
64.	Peroxide Value	550.00
65.	Specific Gravity	385.00
66.	Brix Value	385.00
67.	Unsaponifiable Matter	550.00
Paddy / Rice Physical Analysis Testing Charges		
68.	Paddy	385.00
69.	Rice	385.00
70.	Bran	385.00
71.	Wheat	385.00
Paddy / Rice Quality Analysis		
72.	Milling Test	1100.00
73.	Cooking Test	1100.00
74.	Parboiling & Milling	1650.00
75.	L, B, T Measurement	550.00
76.	Surface Area of Brown Rice & Categorization	550.00
77.	1000 Grain Weight (Paddy & Brown Rice)	550.00
78.	Shelling only (upto 300 gm)	385.00
79.	Polishing of Brown Rice (upto 250 gm)	385.00
80.	Grain Pulverizing (upto 25 gm)	275.00
81.	Bulk Density	275.00
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
Color Quest		
97.	L*a*b value	550.00
Polarimeter		
98.	Optical Rotation	550.00
Microbial Analysis		
99.	Total Plate Count	1100.00
100.	Yeast & Mould Count	1100.00
101.	Total Coliforms	1100.00
102.	<i>E. coli</i> Screening	1100.00
103.	<i>Salmonella</i> sp. Screening	1100.00
104.	<i>Staphylococcus</i> sp. Screening	1100.00
105.	<i>Shigella</i> sp. Screening	1100.00
106.	<i>Listeria</i> sp. Screening	1100.00
107.	<i>Clostridium</i> sp. Screening	1100.00
108.	Antimicrobial Activity	1100.00/Strain/Sample
109.	SDS-PAGE Electrophoresis	8683.00/Sample
Automated Microbial Identification		
110.	Identification of gram-positive bacteria	1500.00
111.	Identification of gram-negative bacteria	1500.00
112.	Identification of <i>Bacillus</i> group bacteria	2000.00
113.	Identification of yeast	2000.00
114.	Identification of anaerobic bacteria	2500.00
115.	Detection of <i>Salmonella</i>	1200.00
116.	Detection of <i>Staphylococcus aureus</i>	1500.00
117.	Detection of <i>Listeria monocytogenes</i>	1200.00
118.	Enumeration of Enterobacteria	2000.00
119.	Enumeration of <i>Staphylococcus aureus</i>	2000.00
120.	Enumeration of aerobic mesophilic total flora	1600.00
121.	Enumeration of <i>Bacillus cereus</i>	1800.00
122.	Enumeration of <i>Escherichia coli</i>	1500.00
123.	Enumeration of Yeast and Mold	1700.00
124.	Enumeration of total coliform	1200.00
Food Quality Analysis		
125.	Starch	1100.00
126.	Reducing Sugar	1100.00
127.	Sucrose	1100.00
128.	Adulteration Test for Food Product	385.00 / Test
129.	Water Activity	715.00
130.	Volatile Oil	550.00
131.	Sand Silica (Acid Insoluble Ash)	385.00

S.No.	Parameters	Testing Charge* Per Sample (Rs.)
132.	Total Solids	550.00
133.	Soluble Solids	550.00
134.	Water Insoluble Ash	330.00
135.	Hydrocyanic Acid	550.00
136.	Sulphur-di-oxide	550.00
137.	Organoleptic Evaluation	715.00
138.	Lycopene	1100.00
139.	Sulphated Ash	550.00
140.	Insect Infestation	550.00
141.	Vitamin C	1100.00
142.	Gluten	550.00
143.	Alcoholic Acidity	385.00
144.	Microscopical Identification	385.00
145.	SNF (Solid Not Fat)	550.00
Phyto - Chemical Analysis		
146.	Phytochemical Screening	1100.00
147.	Total Phenolics	1100.00
148.	Total Flavonoids	1100.00
149.	Antioxidant Activity by DPPH	1100.00
150.	Antioxidant Activity by FRAP	1100.00
151.	Water Soluble Extracts	385.00
152.	Alcohol Soluble Extracts	385.00
153.	Fluorescence Analysis	385.00
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
5.	Scanning Electron Microscope (SEM)	
	a. Basic	1800.00
	b. With EDAX	3000.00
	c. With critical point dryer	4800.00
	d. With STEM detector	6600.00
6.	Powder X-Ray Diffraction	
	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)
8.	Microscopy (per sample)	
	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

*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.

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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