



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



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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 / Element / Sample
ICP-MS Mineral Analysis (upto Parts Per Trillion Level)		
9.	Heavy Metal Analysis (Hg, Pb, As & Cd)	880.00 / Element / Sample
10.	Food & Water	880.00 / Element / Sample
HPLC Analysis		
11.	Vitamin B Group	2750.00
12.	Vitamin A, D, E & K	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 Compound Screening (Gallic acid, Caffeic acid, Rutin, Quercetin & Ferulic acid)	2750.00
20.	Curcuminoids	2750.00
21.	Capsaicinoids	2750.00
22.	Folic Acid	2750.00
23.	Organic Acids (Oxalic, Maleic, Tartaric, Ferulic & Succinic Acid)	2750.00
24.	Cholesterol	2750.00
25.	Plant Hormones (Zeatin, Gibberlic Acid, Indole Acetic & Abscisic Acid)	2750.00
26.	Citrinin	2750.00
27.	Preservatives	2750.00
28.	Phospholipids	3300.00
29.	Hydroxymethylfurfural (HMF)	2750.00
30.	Food Additives - Total Dye	2750.00
Amino Acid Analyzer (AAA)		
31.	Amino Acid	1100.00 (per AA / Sample)
32.	Amino Acid (17 AA as Package)	11000.00
Preparative HPLC Analysis		
33.	Per Sample / Fraction (Maximum 4 fraction)	6600.00
FTIR Analysis		
34.	Functional Compound Analysis	550.00
LC-MS/MS Analysis		
35.	Colour	5500.00
36.	Pesticides (for each group)	5500.00
37.	Antibiotics	5500.00
38.	Secondary Metabolites Screening	5500.00

S.No.	Parameters	Testing Charge [†] Per Sample (Rs.)
CHNS/O Analysis		
39.	CHNS/O Analysis (Carbon, Hydrogen, Nitrogen & Sulphur)	3850.00
40.	Oxygen	3850.00
GC-MS Analysis		
41.	Pesticide Residual Analysis (for Chlorine & Phosphorous Containing Residues)	5500.00/group
42.	Fatty Acid Profile	3300.00
43.	Phytochemical Identification	3300.00
GC-MS/MS Analysis		
44.	Phytochemical Screening	3300.00
45.	Pesticide Residual Analysis	5500.00
Ion Chromatography Analysis		
46.	Ion Chromatography (Fluoride, Chloride, Bromide, Nitrate, Phosphate, Sulphate)	3300.00
H¹-NMR Analysis		
47.	Proton NMR (CDCl ₃)	1650.00
48.	Proton NMR (DMSO Exchange)	1650.00
49.	Proton NMR (D ₂ O Exchange)	1650.00
Solid Phase Extraction		
50.	Polar or Non-Polar Sample Purification & Extraction	1100.00
Water Quality Analysis		
51.	pH	385.00
52.	Total Dissolved Solids	385.00
53.	Total Hardness	385.00
54.	Chloride Content	385.00
55.	Acidity	385.00
56.	Color	385.00
57.	Taste	385.00
58.	Odour	385.00
59.	Turbidity	385.00
60.	Titration Acidity	550.00
61.	Residue Free Chlorine	550.00
62.	Oil & Grease	715.00
Oil Quality Analysis		
63.	Free Fatty Acid	550.00
64.	Iodine Number	550.00
65.	Acid Number	550.00
66.	Saponification Number	550.00
67.	Peroxide Value	550.00
68.	Specific Gravity	385.00
69.	Brix Value	385.00
70.	Unsaponifiable Matter	550.00
Paddy / Rice Physical Analysis Testing Charges		
71.	Paddy	385.00
72.	Rice	385.00
73.	Bran	385.00
74.	Wheat	385.00
Paddy / Rice Quality Analysis		
75.	Milling Test	1100.00
76.	Cooking Test	1100.00
77.	Parboiling & Milling	1650.00
78.	L, B, T Measurement	550.00
79.	Surface Area of Brown Rice & Categorization	550.00



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S.No.	Parameters	Testing Charge [†] Per Sample (Rs.)
81.	1000 Grain Weight (Paddy & Brown Rice)	550.00
82.	Shelling only (upto 300 gm)	385.00
82.	Polishing of Brown Rice (upto 250 gm)	385.00
83.	Grain Pulverizing (upto 25 gm)	275.00
84.	Bulk Density	275.00
85.	Angle of Repose	275.00
86.	Sun Checks	275.00
87.	Rice Color	275.00
88.	Rice Aroma	275.00
89.	Rice Hardness	275.00
90.	Chalkiness Index	385.00
91.	GT-Alkali Score	385.00
92.	Gel Consistency	385.00
93.	EMCs	330.00
94.	Water Uptake Ratio (W 80° C / 98° C)	550.00
95.	Rapid Visco Analyzer	2200.00
96.	Texture Analysis	2200.00
97.	Amylose	1100.00
98.	Uric Acid (UV Method)	1100.00
99.	Insoluble Amylose	2200.00
Color Quest		
100.	L*a*b value	550.00
Polarimeter		
101.	Optical Rotation	550.00
Microbial Analysis		
102.	Total Plate Count	1100.00
103.	Yeast & Mould Count	1100.00
104.	Total Coliforms	1100.00
105.	<i>E. coli</i> Screening	1100.00
106.	<i>Salmonella</i> sp. Screening	1100.00
107.	<i>Staphylococcus</i> sp. Screening	1100.00
108.	<i>Shigella</i> sp. Screening	1100.00
109.	<i>Listeria</i> sp. Screening	1100.00
110.	<i>Clostridium</i> sp. Screening	1100.00
111.	Antimicrobial Activity	1100.00/ Strain/ Sample
112.	SDS-PAGE Electrophoresis	8683.00/ Sample
Food Quality Analysis		
113.	Starch	1100.00
114.	Reducing Sugar	1100.00
115.	Invert Sugar	1100.00
116.	Sucrose	1100.00
117.	Adulteration Test for Food Product	385.00/ Test
118.	Water Activity	715.00
119.	Volatile Oil	550.00
120.	Sand Silica (Acid Insoluble Ash)	385.00
121.	Tannin (UV Method)	1100.00
122.	Saponin (Gravimetric Method)	550.00
123.	Total Solids	550.00
124.	Soluble Solids	550.00
125.	Water Insoluble Ash	330.00

S.No.	Parameters	Testing Charge [†] Per Sample (Rs.)	
126.	Hydrocyanic Acid	550.00	
127.	Sulphur-di-oxide	550.00	
128.	Organoleptic Evaluation	715.00	
129.	Hydroxymethylfurfural	1100.00	
130.	Curcuminoids	1100.00	
131.	Carotenoids	1100.00	
132.	Lycopene	1100.00	
133.	Capsaicin	1100.00	
134.	Sulphated Ash	550.00	
135.	Insect Infestation	550.00	
136.	Vitamin C	1100.00	
137.	Gluten	550.00	
138.	Alcoholic Acidity	385.00	
139.	Microscopical Identification	385.00	
140.	SNF (Solid Not Fat)	550.00	
141.	Gelatin	550.00	
142.	Saccharin	550.00	
Phyto - Chemical Analysis			
143.	Phytochemical Screening	1100.00	
144.	Total Phenolics	1100.00	
145.	Total Flavonoids	1100.00	
146.	Antioxidant Activity by DPPH	1100.00	
147.	Antioxidant Activity by FRAP	1100.00	
148.	Water Soluble Extracts	385.00	
149.	Alcohol Soluble Extracts	385.00	
150.	Fluorescence Analysis	385.00	
151.	Alkaloids	1100.00	
152.	Tannin	1100.00	
153.	Reducing Power Activity	1100.00	
Computational Modeling and Nanoscale Processing Unit[‡]			
Facility	Student	Non-Student	
Glycemic Index & Food Disintegration Kinetics			
154.	Glycemic index	22000.00	44000.00
155.	Food disintegration kinetics	30000.00	60000.00
Chromatography			
156.	HPLC-Gel permeation chromatography	2750.00	2750.00
Particle Size Analyser			
157.	Particle size of the sample	400.00	1200.00
158.	Zeta potential	400.00	1200.00
XRD			
159.	Basic	1000.00	3000.00
	Phase analysis	1500.00	4500.00
SEM			
160.	Basic	600.00	1800.00
	With EDAX	1000.00	3000.00
	With critical point dryer	1600.00	4800.00
	With STEM detector	2200.00	6600.00
DSC-High Temperature (RT to 700° C)			
161.	Heating	600.00	1800.00
162.	Heating and cooling	1600.00	4800.00
DSC-Low Temperature (-70° C to RT)			
163.	Heating	800.00	2400.00
164.	If cooling also involved	1800.00	5400.00
165.	DSC - Cp measurement	2500.00	7500.00

[†]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, IIFPT" 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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