

CATALOG 2022

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Advisors:

- Dr. Latiful Bari
- Dr. Abdul Khaleque
- Mohammed Shamsuzzaman Joarder

Prepared by:

- Md. Marazul Momenin, Quality Manager
- Mohammad Shahdat Hossain, Research Officer
- Suraiya Jannat, Research Officer
- Ummay Salma, Research Officer
- Rubina Islam, Research Officer
- Md. Tanvir Rahman, Research Officer
- Md. Salah Uddin Ahamed, Senior Executive-Accounts & Admin
- Md. Nazmul Hossain Patwary, Assistant Research Officer
- Rashed Ahamed Sarkar, Assistant Research Officer

Reviewed by:

Md. Abu Bakkar Siddique, Technical Director

Concept & Edited by:

Kbd Abu Jafar Ansary, Managing Director

Designed & Printed by:

The Print Cafe - 01730021311

WAFFEN Research Laboratory Limited

113/B (3rd Floor), Love Road, Tejgaon Industrial Area

Dhaka-1208, Bangladesh

Mobile: +88 019 2385 2655, +88 017 1649 4922

Email: md@waffenbd.com; info@waffenbd.com

Preface

'Catalog 2022' is a special booklet of WAFFEN Research Laboratory Limited (WR2L). This present issue is the 1st publication and the main objective of this booklet is to ensure easy as well as transparent information for our clients. It presents name of the parameters, testing cost of each parameters and reference of the test methods. This 'Catalog 2022' also briefly presents the company profile.

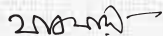
This catalog encompasses 3 (three) chapters covering company's brief profile, analytical and microbiological parameters name, test cost and reference of test methods. This catalog has been updated with the various Standard Operating Procedures (SOPs) developed by WR2L. The cost of tests for each parameter have been settled based on competitive market survey data conducted by WR2L on regular fashion. WAFFEN Research Laboratory Limited has been created provision of discount for mutual agreement with any corporate houses, associations, researchers, NGOs and students.

In this regards, we wish to extent our thanks to entire team of WAFFEN Research Laboratory Limited for their commitment and sincerity. Board Members of WAFFEN Research Laboratory Limited deserves our special thanks for their overall cooperation to bring out the strategic decision in time.

We appreciate valuable comments and constructive suggestions for the future improvement of this Booklet.



Md. Abu Bakkar Siddique
Technical Director



Kbd Abu Jafar Ansary
Managing Director

Dhaka
August 2022

WAFFEN Research Laboratory Limited

Key Facts & Figures

1. Year of Establishment : 2017
2. Total Clients : 250+
3. JSC Registration No. : C-153100/2019
4. Trade License No. : 170745 under Dhaka North City Corporation (DNCC)
5. TIN : 298020313553
6. BIN : 001981016-0203
7. Accreditation Certificate (ISO/IEC 17025:2017) # : 01.055.19 under Bangladesh Accreditation Board (BAB), Ministry of Industries
8. Licenses number of industrial practices under Bangladesh Atomic Energy Regulatory Authority (BAERA) : 95/2021-2022

About us

The WAFFEN Research Laboratory, a registered company was founded by a team of experienced professionals in the field of Microbiology, Food Science & Technology, Food Safety & Hygiene, Agriculture sciences, Biochemistry & Molecular Biology, and Chemistry, whose mission is to do innovative research, provide analytical services, develop skilled manpower & create awareness in the field of Water, Agriculture, Food, Feed, and Environmental sciences.

The WAFFEN Research Laboratory is equipped with cutting-edge technologies and most sophisticated equipment's like AAS, HPLC, GC, protein analyzer, temperature controlled centrifuge machine, incubators, water bath & shakers, Bio-safety cabinet-II level, Inoculation chambers, UV spectrophotometer, Stomacher, homogenizers, Binocular and compound microscopes, pH meters and colorimeter apart from routine equipment to conduct microbiological and biochemical analysis as per ISO standard methods. All the equipment and materials used in WAFFEN Research Laboratory is calibrated regularly to meet the ISO, EU & FDA compliance.



Vision

To be a leading service provider for contract research and analytical services across the country and abroad.



Mission

Making lives better for clients, consumers, suppliers and employees.



Our Values

- We offer the highest quality service of all tests;
- We care for quality, and the quality is our pride; we test and certify products that our families can use;
- We maintain transparency in all operations;
- We care for Environment, Health and Safety;
- We develop competent human resources by hands on training & education.

ওয়াফেন

নিয়ে এলো

র‍্যাপিড হাইজিন ডিটেকশন কিট

যার মাধ্যমে দ্রুত সময়ে বের করা যায়
যেকোন সারফেসের জীবাণুর উপস্থিতি



Mobile: +88 017 1649 4922
Email: info@waffenbd.com
Web: www.waffenbd.com



Analytical Parameters

Analytical parameters with Price & Reference Test Method

Sl. No.	Test Parameter	Test Price	Reference Test Method
01	Acid Insoluble Ash	2000.00	AOAC 941.12(b)
02	Acid Value	900.00	AOAC 940.28
03	Acidity	1000.00	AOAC 942.15
04	Aflatoxins (B1,B2,G1,G2)	6500.00	HPLC
05	Ag (silver)	2500.00	AAS
06	Al (Aluminum)	2000.00	AAS
07	Alcohol	6500.00	GC
08	Alcoholic Acidity	1000.00	IS 1155
09	Alkalinity of Soluble Ash	800.00	IS 3077
10	Amino Acid profile(Each)	6500.00	HPLC
11	Antibiotics (Each)	6500.00	HPLC
12	As (arsenic)	2000.00	AAS
13	Ash	1200.00	AOAC 941.12(a)
14	B (Boron)	2000.00	AAS
15	Benzoic Acid	6500.00	HPLC

Sl. No.	Test Parameter	Test Price	Reference Test Method
16	Beta carotene	6500.00	HPLC
17	Bi (Bismuth)	3000.00	AAS
18	Biotin	6500.00	HPLC
19	Bold Bright & Shining Grain	400.00	ISO 7301
20	Broken grain	400.00	ISO 7301
21	Ca (Calcium)	2000.00	AAS
22	Caffeine	6500.00	HPLC
23	Calorie /Energy	3000.00	FAO 2003-Chapter 2
24	Cd (cadmium)	2000.00	AAS
25	Chalky grain	400.00	ISO 7301
26	Cholesterol	3000.00	UV Spectrophotometer
27	Cr (Chromium)	2000.00	AAS
28	Co (Cobalt)	2500.00	AAS
29	Colour	700.00	Lovibond tintometer
30	COD	2500.00	COD Analyzer

Sl. No.	Test Parameter	Test Price	Reference Test Method
31	Cu (Copper)	2000.00	AAS
32	Crude Fiber	1500.00	AOAC 978.10
33	Damage grain	400.00	Visual, Gravimetry
34	DDT	6500.00	GC-ECD
35	Dead grain	500.00	Visual, Gravimetry
36	Dextrin	6500.00	HPLC
37	Dextrose	6500.00	HPLC
38	Dietary Fiber	15000.00	Dietary Fiber Analyzer
39	Digestibility	4000.00	AOAC 971.09
40	Dissolved Oxygen (DO)	3000.00	DO Meter
41	BOD	3500.00	Lovibond BOD Analyzer
42	Dry matter	800.00	AOAC 934.01
43	Electrical conductivity (mS/cm)	800.00	Electrical conductivity Meter
44	Ether Insoluble Matter (EIM)	2500.00	ISO 673.1981
45	Fat	1500.00	AOAC 2003.05

Sl. No.	Test Parameter	Test Price	Reference Test Method
46	Fatty Acid Profile	6500.00	Gas Chromatography
47	Fe (Iron)	2000.00	AAS
48	Foreign Material	400.00	ISO
49	Formaldehyde	6500.00	Gas Chromatography
50	Formalin detection	800.00	Qualitative
51	Free Fatty Acid (FFA)	800.00	AOAC 940.28
52	Fructose	6500.00	HPLC
53	Gamma Oryzanol	6500.00	HPLC
54	Glucose	6500.00	HPLC
55	Gluten	1500.00	Gafta Method 36.2
56	Grain Size	400.00	ISO 7301
57	Granularity	600.00	ISO 2591-1
58	Hardness	1000.00	IS 3025 Part 21
59	Heavy Metals (Each)	2000.00	AAS
60	Hg (Mercury)	2500.00	AAS

Sl. No.	Test Parameter	Test Price	Reference Test Method
61	Hydrogen Peroxide	1500.00	IS 2080-1980
62	Hydroquinone	6500.00	HPLC
63	Hydrose(Qualitative)	1300.00	WFN/SOP/107
64	Acid Insoluble Impurities	2000.00	ISO 663-2017
65	Insect	500.00	Visual examination
66	Insect Damage Grain	400.00	Visual examination
67	Insect Infestation	400.00	Visual examination
68	Insoluble Impurities/ Ether Insoluble Matter	2000.00	ISO 673.1981
69	Invert Sugar	2000.00	Lane-Eynon method
70	Iodine (ppm)	2000.00	IS 7224:2006
71	Iodine Value	2000.00	AOAC 920.159
72	K (Potassium)	2000.00	AAS
73	Lactose	3000.00	Lane-Eynon method
74	Pb (Lead)	2000.00	AAS
75	Lethal Concentration 50	15000.00	WFN/SOP/107

Sl. No.	Test Parameter	Test Price	Reference Test Method
76	Mg (Magnesium)	2000.00	AAS
77	Mn (Manganese)	2000.00	AAS
78	Melting Point	1000.00	Capillary Method
79	Milk fat	1500.00	Gerber Method
80	Milk Solid	1000.00	AOAC 990.20
81	Milling degree	500.00	ISO 7301
82	Minerals (Each)	2000.00	AAS
83	Moisture content	800.00	AOAC 934.01
84	Na (Sodium)	2000.00	AAS
85	Ni (Nickel)	2000.00	AAS
86	Niacin (Vitamin B3)	6500.00	HPLC
87	Odor	500.00	Sensory Measurement
88	Oil Content	1500.00	AOAC 2003.05
89	Omega-3 Fatty Acid	6500.00	GC
90	Omega-6 fatty acid	6500.00	GC

Sl. No.	Test Parameter	Test Price	Reference Test Method
91	Organoleptic Test	1500.00	Sensory Measurement
92	Pantothenic Acid	6500.00	HPLC
93	Pectin	3000.00	IS 15929
94	Peroxide Value	1500.00	AOAC 965.33
95	Pesticide Residues Screening	10000.00	GC-ECD
96	Petroleum Ether Extract	1500.00	AOAC 2003.05
97	pH	500.00	pH Meter
98	P (Phosphorous)	2000.00	AAS
99	Potassium chloride	2000.00	IS 4150
100	Protein	1500.00	AOAC 2001.11
101	Solubility Index	1500.00	ISO 8156
102	Reducing Sugar	3000.00	AOAC 920.183 (Lane-Eynon method)
103	Relative Density/ specific gravity	700.00	AOAC 920.212
104	Riboflavin (Vitamin B2)	6500.00	HPLC

Sl. No.	Test Parameter	Test Price	Reference Test Method
105	Salt as NaCl	2500.00	Mohr's Method
106	Sand Silica	2000.00	IS 7874-1
107	Saponification Value	1500.00	AOAC 920.160
108	Saturated Fat	6500.00	GC
109	Selenium	3000.00	AAS
110	Size of broken grain	400.00	ISO 5223-1995
111	Size of grain	400.00	ISO 5223-1995
112	Sn (Tin)	2500.00	AAS
113	Sodium Bicarbonate	1200.00	IS 2124
114	Solid Non-Fat	1500.00	AOAC 990.21
115	Solubility	1000.00	IS 1165
116	Solubility in Boiling Water	1500.00	IS 13855-1993
117	Solubility in water	1000.00	IS 13855-1993
118	Solubility of milk	1000.00	IS 1165
119	Soluble Solids	1200.00	AOAC 932.12

Sl. No.	Test Parameter	Test Price	Reference Test Method
120	Starch	3500.00	IS 4706-2
121	Sugar	2000.00	AOAC 920.183 (Lane-Eynon method)
122	Sulfated Ash	2000.00	USP
123	Sulfur di oxide	6500.00	HPLC
124	Taste	400.00	IS 3025 Part -7& 8
125	Titrateable Acidity	1000.00	AOAC 942.15
126	Total Carbohydrate	4000.00	FAO -2003, Chapter -2
127	Total Damaged kernels	400.00	Visual, Gravimetry
128	Total Dissolved Solid	500.00	TDS Meter
129	Total milk solid	900.00	AOAC 923.25
130	Total Solid/Dry matter	1200.00	AOAC 990.20
131	Total Sugar	2000.00	Lane-Eynon method
132	Trans Fatty Acid	6500.00	GC
133	Turbidity	1200.00	Turbidity meter
134	Un Saponification matter	2000.00	AOAC 933.08

Sl. No.	Test Parameter	Test Price	Reference Test Method
135	Unsaturated Fatty Acid	6500.00	GC
136	Urea	3000.00	UV Spectrophotometer
137	Urease Index	1500.00	Gafta Method 27
138	Viscosity	2500.00	Viscosity Meter
139	Vitamin A	6500.00	HPLC
140	Vitamin B Complex (each)	6500.00	HPLC
141	Vitamin B9 (Folic Acid)	6500.00	HPLC
142	Vitamin C	6500.00	HPLC
143	Vitamin D	6500.00	HPLC
144	Vitamin E	6500.00	HPLC
145	Vitamin K	6500.00	HPLC
146	Water Insoluble Ash	1200.00	IS 13855
147	Water Soluble Matter	1000.00	IS 13855
148	Yellow Kernels	400.00	Visual
149	Zn (Zinc)	2000.00	AAS

Sl. No.	Test Parameter	Test Price	Reference Test Method
150	Nitrofuran	6500.00	HPLC
151	Oxytetracycline	3000.00	HPLC
152	Chloramphenicol	5000.00	HPLC
153	Tetracycline	6500.00	HPLC
154	Ciprofloxacin	6500.00	HPLC
155	Enrofloxacin	6500.00	HPLC
156	Azithromycin	6500.00	HPLC
157	Levofloxacin	7000.00	HPLC
158	Total suspended solid	2000.00	IS 3025 Part 17
159	Total Fatty Matter	1500.00	IS 286
160	Chlorophyll Content	6500.00	UV Spectrophotometer
161	Sediment (Hexane insoluble)	1500.00	ISO 663-2017
162	Sediment (Acetone insoluble)	1500.00	ISO 663-2017
163	Gum & Wax	4000.00	IS 548
164	Off-flavor	500.00	Sensory Measurement

Sl. No.	Test Parameter	Test Price	Reference Test Method
165	Brixo	700.00	Refractometer
166	Sulfite	2000.00	Spectrophotometer
167	Sulfur Dioxide	6500.00	HPLC
168	Total Soluble Solids (TSS)	1000.00	AOAC 970.59
169	D5 Content	6500.00	GC
170	Nitrate	2000.00	Spectrophotometer
171	Nitrites	2000.00	Spectrophotometer
172	Hardness as Calcium (Ca)	1800.00	Spectrophotometer
173	Hardness as Magnesium(Mg)	1800.00	Spectrophotometer
174	Fluoride (F ⁻)	2000.00	Spectrophotometer
175	Chloride (Cl ⁻)	2000.00	Spectrophotometer
176	Sulphate (SO ₄ ²⁻)	2000.00	Spectrophotometer
177	Ammonia-Nitrogen (NH ₃ -N)	2000.00	Spectrophotometer
178	Chlorine	2000.00	Spectrophotometer
179	Orthophosphate (PO ₄)	6500.00	Spectrophotometer

Sl. No.	Test Parameter	Test Price	Reference Test Method
180	Silica (SiO ₂)	2000.00	Spectrophotometer
181	Water Activity (aw)	3000.00	ISO 18787
182	Appearance	500.00	Visual examination
183	Temperature	700.00	Thermometer
184	Sodium Bicarbonate	3500.00	IS 2124
185	Calcium Ion Exchange Capacity, mg CaCO ₃ /g	5500.00	IS 2720-24
186	Bulk Density, g/cc	1200.00	ISO 959-1
187	Tapped Density	1500.00	IS 8871
188	Sieve Retention on 300 mesh	1500.00	IS
189	Foreign Matter	500.00	Visual, Gravimetry
190	Other Colored Grain	500.00	Visual, Gravimetry
191	Live insect Presence	500.00	Visual, Gravimetry
192	Phthalimide	7000.00	GC/MS
193	Pyridaben	7000.00	GC/MS
194	Anthraquinone	7000.00	GC/MS
195	Folpet/PI(sum)	7000.00	GC/MS

Sl. No.	Test Parameter	Test Price	Reference Test Method
196	Ammonia (NH ₃)	2000.00	Spectrophotometer
197	Potassium Bromate (KBrO ₃)	7000.00	UV Spectrophotometer
198	Chlorinated phenols (2,4,6, trichlorophenol)	7000.00	GC/MS
199	Chromium (hexavalent)	3500.00	Spectrophotometer
200	Chloroform	6500.00	GC/MS
201	Cyanide	3000.00	Spectrophotometer
202	Detergents	3000.00	IS 1479
203	Oil & Grease	2000.00	IS 3025-part 39
204	Phenolic Compounds	6500.00	HPLC
205	Phosphate	2000.00	Spectrophotometer
206	Polycyclic hydrocarbon	6500.00	GC/MS
207	Hydroxymethyl furfural (HMF)	4500.00	AOAC 980.23
208	Diastase Activity	5500.00	AOAC 958.09
209	Bodouine	3500.00	IS 548
210	Acrylamide	6500.00	HPLC
211	Menthol Content	6500.00	GC/MS

Sl. No.	Test Parameter	Test Price	Reference Test Method
212	Allyl isothiocyanate	6500.00	IS 548
213	4-aminobiphenyl	6500.00	HPLC
214	Tilmicosin	6500.00	HPLC
215	Non-Volatile ether extract	1000.00	AOAC 2003.05
216	Fineness	800.00	Sieve Analysis
217	Insects	700.00	Visual Examination
218	Volatile Oil	3000.00	AOAC 962.17
219	Sudan dye (Each)	6500.00	HPLC
220	Bisphenol-A	6500.00	HPLC
221	Acrylamide	6500.00	HPLC
222	Acetaldehyde	6500.00	GC/MS
223	Food Grade (package)	32000.00	HPLC, AAS, GC
224	Total organic Carbon	4500.00	WFN/SOP/135
225	C:N Ratio	4500.00	Walkley-Black Method
226	Flavonoid compound	6500.00	UV Spectrophotometer
227	DPPH	6500.00	UV Spectrophotometer



Microbiological Parameters

Microbiological Parameters with Price & Reference Test Method

Sl. No.	Test Parameter	Test Price	Reference Test Method
01	Total Aerobic plate count	1500.00	BAM Chapter -3
02	Total Coliform	2500.00	ISO 4832:2006
03	Fecal Coliform	2500.00	IS 1622
04	E. coli	2500.00	ISO 9308-1;2014
05	Salmonella	2500.00	ISO 6579:2002
06	Staphylococcus aureus	2500.00	BAM Chapter -12
07	Shigella spp	3000.00	BAM Chapter -6
08	Pseudomonas spp	2500.00	BAM Chapter -23
09	Vibrio spp	3000.00	BAM Chapter -9
10	Listeria spp	3000.00	BAM Chapter -10
11	Fecal Streptococci	2500.00	IS 5887-2(1976)
12	Coagulase (+ve) Streptococcus	3500.00	BAM Chapter -12
13	Campylobacter	3500.00	BAM Chapter -7
14	Enterococci	2500.00	BAM Chapter -4
15	Bacillus spp	3000.00	BAM Chapter -14
16	Anaerobic Bacteria	3000.00	BAM Chapter -
17	Legionella	Negotiable	ISO 11731:2017
18	Clostridium	3000.00	BAM Chapter -16

Sl. No.	Test Parameter	Test Price	Reference Test Method
19	Saccharomyces spp	3500.00	BAM Chapter -
20	Aspergillus	3500.00	BAM Chapter -
21	Trichoderma	3500.00	Kumar et al,2011
22	Yeast & Molds count	2500.00	ISO 7954:1987(E)
23	Antimicrobial Sensitivity (E.coli ATCC:11775)	2000.00	Kirby-Bauer disk diffusion test
24	Antimicrobial Sensitivity (Staphylococcus aureus ATCC:6538)	2000.00	Kirby-Bauer disk diffusion test
25	Candida spp.(Fungicidal Activity)	4000.00	Kirby-Bauer disk diffusion test
26	Staphylococcus aureus (Bactericidal Activity)	2000.00	Kirby-Bauer disk diffusion test
27	Pseudomonas spp. (Bactericidal Activity)	2500.00	Kirby-Bauer disk diffusion test
28	E.coli (Bactericidal Activity)	2500.00	Kirby-Bauer disk diffusion test
29	Aciduric Plate Count	4500.00	William H. Sperber et al., 2009
30	Heat Resistant Mold Count	6000.00	ISO-7954:1987 (E) & Salomão et al., 2014
31	Alicyclobacillus	5500.00	Groenewald, Gouws and Witthuhn, 2009



ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

Waffen Research Laboratory Ltd.

113/B, 4-th Floor, Love Road, Tejgaon I/A

Dhaka-1208, Bangladesh

This is to certify that this
Testing Laboratory

is accredited in accordance with the international standard
ISO/IEC 17025:2017

in respect of the associated scope, subject to the terms and
conditions governing the relevant conformity assessment
body (CAB) accreditation.

Certificate Number : 01.055.19
Accreditation Date : 15 March 2019
Date of Issuance : 09 May 2022
Date of Expiration : 14 March 2025




Md. Monwarul Islam
Director General

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.



www.waffenbd.com

WAFFEN Research Laboratory Limited

113/B (3rd Floor), Love Road, Tejgaon Industrial Area
Dhaka-1208, Bangladesh

Email: md@waffenbd.com, info@waffenbd.com

Mobile: +88 019 2385 2655, +88 017 1649 4922