



ACCREDITATION CERTIFICATE

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

Waffen Research Laboratory Ltd.

167/24, Matikata, ECB Chattar

Dhaka Cantonment, Dhaka-1206, 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 July 2025**
Date of Expiration : **14 March 2028**



M. A. Kamal Billah
M. A. Kamal Billah
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.

SCOPE OF ACCREDITATION

(For Testing Laboratory)

CAB Name & Address: WAFFEN Research Laboratory Limited
167/24, Matikata, ECB Chattar, Dhaka Cantonment, Dhaka-1206, Bangladesh

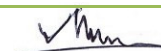
Accreditation Standard: ISO/IEC 17025:2017 **Accreditation Date:** 15 March 2019

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Last Amended on: NA **Valid until:** 14 March 2028

Amendment no: NA

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Microbiological				
01.	Food & Beverage	Total Plate Count	BAM, Chapter-3, 2001	10 CFU/ml or gm
02.	Food and Animal Feed	Total Coliform count	ISO 4832:2006	1 CFU/ml or gm
03.	Food and Animal Feed	Yeast & Mold Count	ISO 7954:1987(E)	10 CFU/ml or gm
04.	Drinking Water	<i>E. coli</i>	ISO 9308-1:2014	Present or absent per 250 ml
05.	Food and Animal Feed	<i>Salmonella</i> spp.	ISO 6579:2002(E)	Present or absent per 25 gm
06.	Food & Beverage	Staphylococcus aureus	BAM, Chapter-12:2016	1 MPN/g
07.	Food and Animal Feed	<i>E. coli</i>	ISO 7251:2005	Present or absent per 25 gm
Field: Chemical				
08.	Carbonated Beverages	Determination of Benzoic Acid	AOAC 979.08	1 mg/L to 1000 mg/L
09.	Carbonated Beverages	Determination of Caffeine	AOAC 979.08	1 mg/L to 1000 mg/L
10.	Cereal Food	Determination of Moisture content	AOAC 925.10	0.1% to 90%
11.	Cereal, Sugar & Sugar Product	Determination of Total Sugar content	WFN/SOP/105	0.7% to 100%
12.	Oils & Fats	Determination of Peroxide value	AOAC 965.33	1 milliequivalent/kg to 90 milliequivalent/kg
13.	Dairy Product	Determination of Tetracycline	WFN/SOP/102	0.06 mg/L to 100 mg/L
14.	Dairy Product	Determination of Enrofloxacin	WFN/SOP/103	0.09 mg/L to 100 mg/L
15.	Vegetables (eggplant, cabbage, cauliflower, hyacinth bean, broccoli, and tomato)	Pesticide Residue (4,4'-DDT)	WFN/SOP/150	10 µg/kg to 500 µg/kg
16.	Vegetables (eggplant, cabbage, cauliflower, hyacinth bean,	Pesticide Residue (Chlorpyrifos)	WFN/SOP/150	10 µg/kg to 500 µg/kg



Quality Manager

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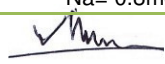
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	broccoli, and tomato)			
17.	Vegetables (eggplant, cabbage, cauliflower, hyacinth bean, broccoli, and tomato)	Pesticide Residue (Cypermethrin)	WFN/SOP/150	10 µg/kg to 500 µg/kg
18.	Vegetables (eggplant, cabbage, cauliflower, hyacinth bean, broccoli, and tomato)	Pesticide Residue (Methoxychlor)	WFN/SOP/150	10 µg/kg to 500 µg/kg
19.	Water	pH value	WFN/SOP/161	0 to 14
20.	Water	Electrical Conductivity	WFN/SOP/162	0.01 µS/cm to 5000 µS/cm
21.	Water	Total Dissolved Solid (TDS)	APHA 2540 C	1 mg/l to 20000 mg/L
22.	Water	Turbidity	APHA 2130 B	0.01 NTU to 1000 NTU
23.	Water	Total Suspended Solid (TSS)	APHA 2540 D	0.5 mg/l to 5000 mg/L
24.	Water	Total Solid (TS)	APHA 2540 B	0.5 mg/l to 5000 mg/L
25.	Water	Chloride Content	ISO 9297	1 mg/l to 20000 mg/L
26.	Water	Total Hardness	USEPA 130.2	1 mg/l to 5000 mg/L
27.	Water	Dissolved Oxygen (DO)	USEPA 360.1	0 mg/l to 60 mg/L
28.	Water	Oil & Grease	IS 3025 (Part 39): 1991	1 mg/l to 5000 mg/L
29.	Water	Nitrite	APHA 4500-NO ₂ -B	50 to 1000 µg NO ₂ —N/L
30.	Water	Nitrate	APHA 4500-NO ₃ -B	10 to 1000 µg NO ₃ —N/L
31.	Water	Lead, Cadmium, Chromium, Iron and Magnesium	APHA 3111B	0.02 mg/L to 100 mg/L
32.	Water	Arsenic	APHA 3114C	0.002 mg/L to 100 mg/L
33.	Foods (Cereal, Biscuit, Milk)	Total Fat	GB 5009.6-2016	0.1% to 100%
34.	Foods (Cereal, Biscuit, Oil & fats, Milk)	Fatty Acid Composition, Saturated Fat, Poly Unsaturated Fat, Mono Unsaturated Fat, Trans Fat	GB 5009.168-2016	0.01% to 100%
35.	Foods (Cereal, Biscuit, Milk)	Cholesterol	GB 5009.128-2016	10 mg/kg or mg/L
36.	Foods (Cereal,	Sodium & Potassium	GB 5009.91-2017	Na= 0.8mg/100g


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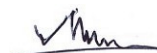
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	Biscuit, Milk)			K= 0.2mg/100g
37.	Foods (Cereal, Biscuit, Milk)	Iron	GB 5009.90-2016	0.75 mg/kg or mg/L
38.	Foods (Cereal, Biscuit, Milk)	Zinc	GB 5009.14-2017	1 mg/kg or mg/L
39.	Foods (Cereal, Biscuit, Milk)	Calcium	GB 5009.92-2016	0.5 mg/kg or mg/L
40.	Foods (Cereal, Biscuit, Milk)	Total Carbohydrate	IS 1656:2022, Annex-C (AOAC 986.25)	0.5% to 100%
41.	Foods (Cereal, Biscuit, Milk)	Iodine Content	GB 5009.267-2020	0.07 mg/kg or mg/L
42.	Oil & Fats	Iodine Value	AOAC 920.159	3 - 200
43.	Oil & Fats	Free Fatty acid (as Lauric Acid, Palmitic Acid and Oleic Acid) and Acid Value	AOCS Cd 3d-63	FFA= 0.1% Acid Value= 0.2 mg KOH/g
44.	Foods (Cereal, Biscuit, Milk)	Protein	GB 5009.5-2016	0.1% to 100%
45.	Foods (Cereal, Biscuit, Milk)	Determination of Ash (Total Ash, Water Soluble Ash, Water Insoluble Ash and Acid Insoluble Ash)	GB 5009.4 - 2016	0.1% to 100%
46.	Foods for infant and young children, milk and milk products	Determination of Lactose and Sucrose	GB 5413.5 - 2010	0.4% to 100%
47.	Foods (Cereal, Biscuit, Milk)	Aflatoxin	WFN/SOP/109	0.2 µg/kg
48.	Foods (Cereal, Biscuit, Milk)	Vitamin A & E	GB 5009.82-2016	30 µg/100g
49.	Foods (Cereal, Biscuit, Milk)	Copper	GB 5009.13-2017	0.5 mg/kg or mg/L

END



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