



জীবনের জন্য বিজ্ঞান

বাংলাদেশ বিজ্ঞান ও শিল্প গবেষণা পরিষদ (বিসিএসআইআর)
BANGLADESH COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (BCSIR)

Institute Name: Institute of Food Science & Technology (IFST)

ANALYSIS REPORT

Analytical Service Cell, BCSIR, Dhaka Sample No. F-508, Date: 06.05.2025	Referred by: Nutricaa Ltd
No. of Sample: 01 (One)	Koltapara, Nandigram, Douhakhola,
Date of receipt: 06.05.2025	Gouripur, Mymensingh
Date of submission: 28.05.2025	Ref. No.: Nil
Particulars of Sample: অপটিনা বোনঅ্যাক্টিভ	

Report Details:

SN	Test Parameters	Results
1	Energy (Kcal/100 g)	452
2	Fat (g/100 g)	17.16
3	Protein (g/100 g)	21.89
4	Carbohydrate (g/100 g)	52.48
5	Dietary Fiber (g/100 g)	22.02
6	Sugar (g/100 g)	20.67
7	Sodium (mg/100 g)	442
8	Potassium (mg/100 g)	168
9	Cholesterol (mg/100 g)	0.0

Md. Jaynal Abedin
28.05.2025

Analyst
Md. Jaynal Abedin
Senior Scientific Officer
Institute of Food Science and Technology
BCSIR, Dhanmondi, Dhaka-1205

Farzana
28.05.2025

Lab in-charge
DR. TASNIM FARZANA
Principal Scientific Officer
Section-in-Charge
Quality Control Research Section
IFST, BCSIR, Dhaka-1205

28.05.2025

Director
মঞ্জুর মোশেদ আহমেদ
পরিচালক (অতিঃ দায়িত্ব)
খাদ্য বিজ্ঞান ও প্রযুক্তি ইনস্টিটিউট
বিসিএসআইআর, ঢাকা।

Note:

- The result reported above pertains only to the sample supplied in this laboratory.
- This report or any part thereof should not be published without prior permission of the issuing authority.
- Any overwriting / erasing in the test results should not be acceptable. Overwriting / erasing in the test results must have to be reported to the issuing authorities as early as possible.
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- This report is free from any legal litigation and IFST, BCSIR is not liable for any legal implication relating the report.

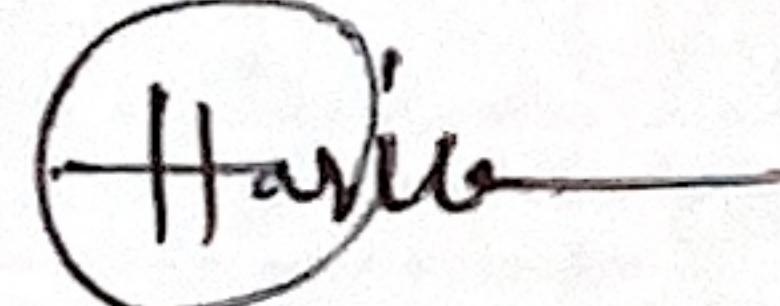


বাংলাদেশ বিজ্ঞান ও শিল্প গবেষণা পরিষদ (বিসিএসআইআর)
BANGLADESH COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH (BCSIR)
Institute of Food Science & Technology (IFST)
ANALYSIS REPORT

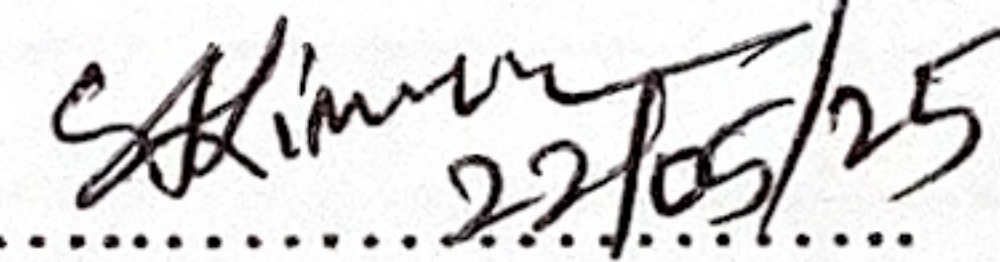
ASC Ref No. : F-508 Test Commencement Date : 19.05.2025
Date: 06.05.2025
Lab ID : OLT: 108/2025 Test Completion Date : 22.05.2025
Sample Description : অপটিমা বোনঅ্যাকটিভ
Client's Details : নিউট্রিকা লিমিটেড
নন্দীগ্রাম, ডোহাখলা, কলতাপাড়া, গৌরীপুর-২২৭০, ময়মনসিংহ
মোবাইল: ০১৭১৪২১৭১৩১

Results:

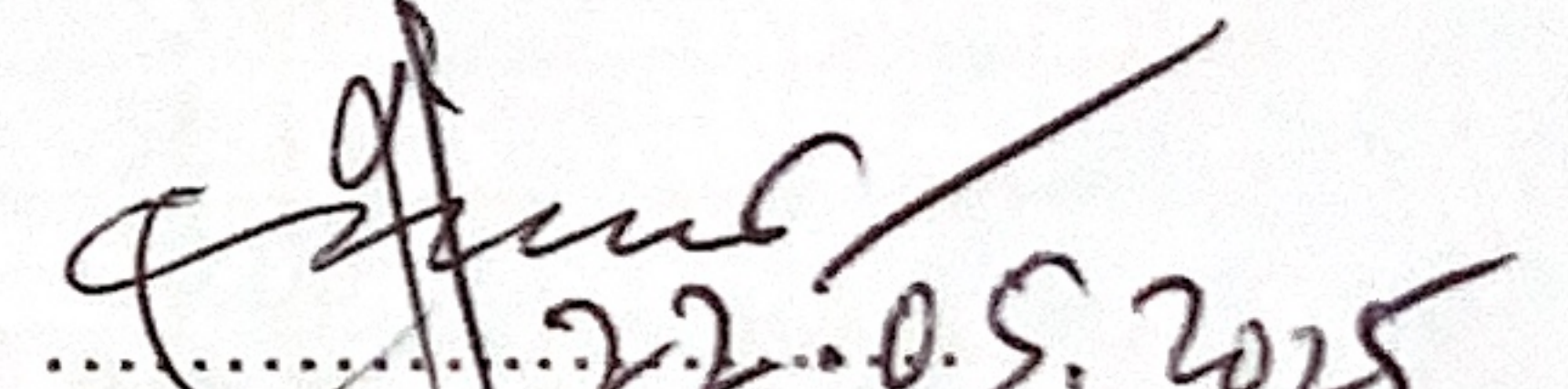
Sl. No.	Parameter	Unit	Result
1.	Saturated Fat	% (w/w)	3.22
2.	Trans Fat	% (w/w)	0.055


22.05.25
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Analyst

Md. Hasib Pathan
Scientific Officer
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22/05/25
.....
Supervisor

Sharmin Akter Lisa
Senior Scientific Officer
Institute of Food Science & Technology
BCSIR, Dhaka-1205


22.05.2025
.....
Director

Monzur Morshed Ahmed
Director (Addl. Charge)
Institute of Food Science & Technology
BCSIR, Dhaka

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BANGLADESH COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH (BCSIR)
INSTITUTE OF FOOD SCIENCE AND TECHNOLOGY (IFST)

ANALYSIS REPORT

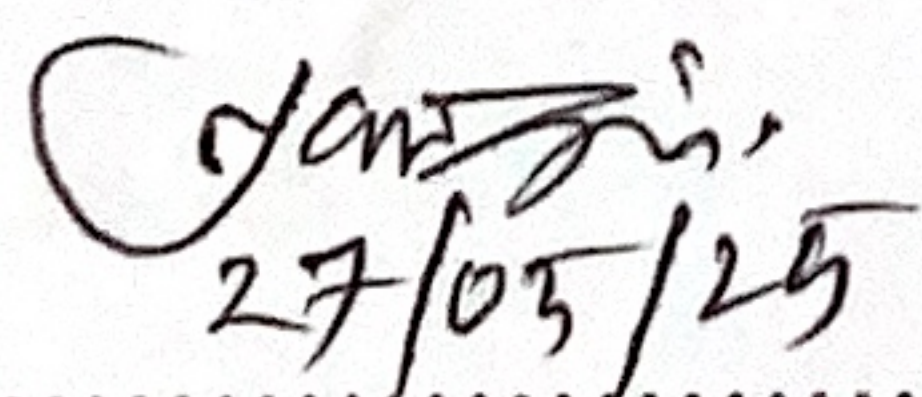
ASC Ref No.: F-508, Date: 06.05.2025	Lab/Sample ID: M380
Sample Description: Optima Boneactive	Number of Sample: 1 (One)
Client's Details: Nutricaa Ltd., Koltapora, Nandigram, Dauhakhola, Gouripur, Mymensingh, Bangladesh	Test Commencement Date: 06.05.2025
Ref.No: Nil	Test Completion Date: 27.05.2025

Details:

SL No.	Parameters	Results
1	Vitamin D ₃ *, mcg/100g	13.00
2	Vitamin E*, mg/100g	58.33
3	Vitamin K*, mcg/100g	10.00
4	Vitamin C*, mg/100g	912.88
5	Vitamin B ₁ *, mg/100g	25.36
6	Vitamin B ₂ *, mg/100g	8.74
7	Vitamin B ₃ *, mg/100g	4.08
8	Vitamin B ₅ *, mg/100g	21.18
9	Vitamin B ₆ *, mg/100g	2.66
10	Vitamin B ₉ *, mg/100g	1.95
11	Vitamin B ₁₂ *, mcg/100g	920.00

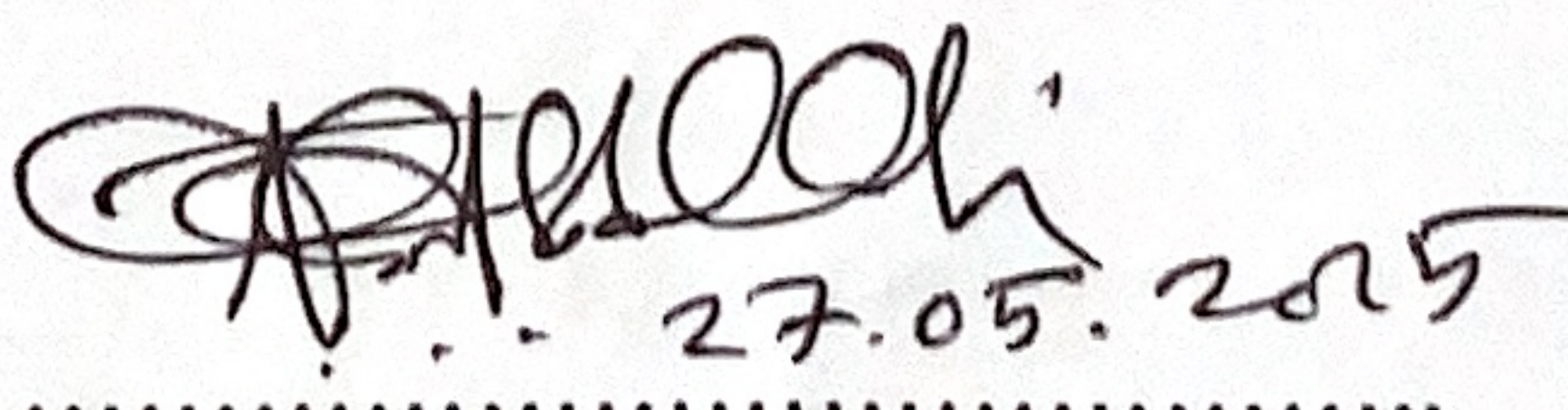
* Measured by High Performance Liquid Chromatography (HPLC)

Comment: Above results have been found in the supplied sample.


27/05/25

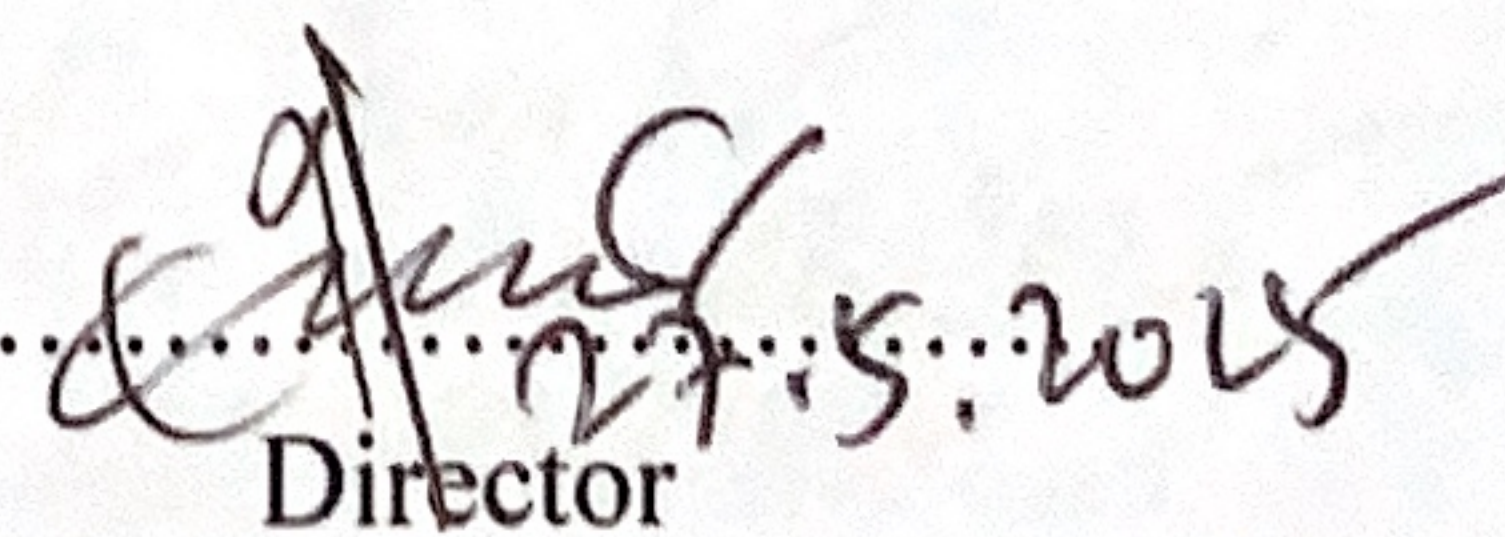
Analyst

Tanzir Ahmed Khan
Principal Scientific Officer
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BCSIR, Dhaka-1205


27.05.2025

Supervisor

Abu Tareq Mohammed Abdullah
Principal Scientific Officer
Institute of Food Science and Technology
BCSIR, Dhaka-1205


27.5.2025

Director

Monzur Morshed Ahmed
Director (Addl. Charge)
Institute of Food Science & Technology
BCSIR, Dhaka

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BANGLADESH COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (BCSIR)

Institute Name: Institute of Food Science & Technology (IFST)

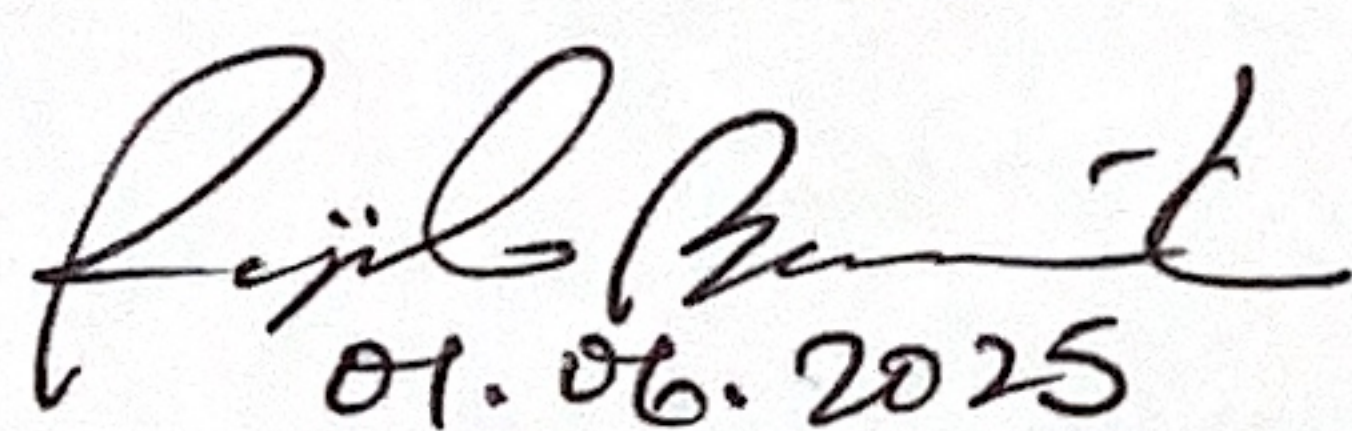
Analysis Report

Analytical Service Cell Ref No.: F-508	Application Submission Date: 06/05/2025
Lab/Sample ID: P-022	Sample Receiving Date: 07/05/2025
Client's Ref No.: n/a; Date: 06/05/2025	Report Delivery Date: 01/06/2025
Sample Description: Optima Bobeactive. Mfg. Date: 03 May 2025, Exp. Date: 02 May 2026	
Client's Details: Ahmed Amin, Nutricaa Ltd., Koltapara (Bhoirab-Mymensingh Road), Nondigram, Douhakhola, Gouripur, Mymensingh-2270. Mobile No.: 01714217131, E-mail: info@nutricaa.com, Web site: www.nutricaa.com	
Number of Sample(s): 01 (one)	

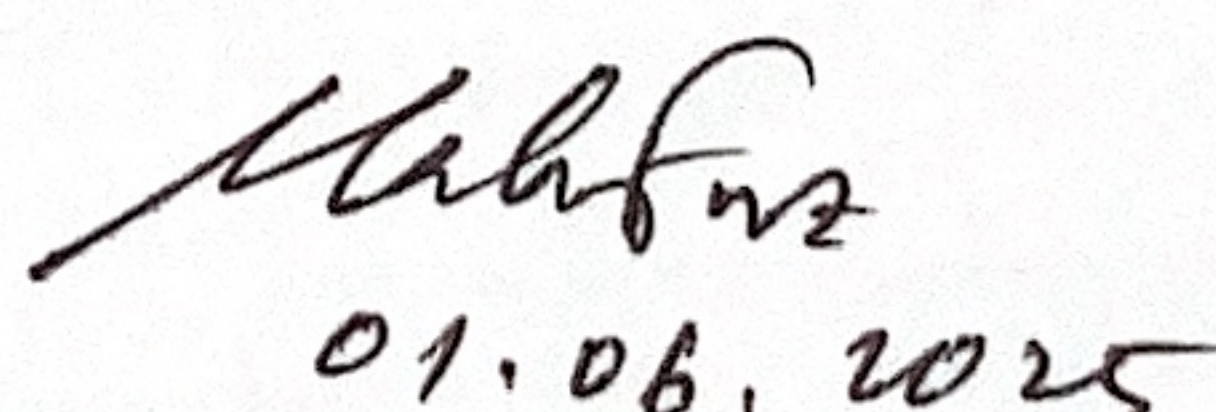
Report Details:

Sl. No.	Test Parameter(s)*	Result	Unit
1.	Calcium (Ca)	938.19	mg/100 gm
2.	Magnesium (Mg)	597.09	mg/100 gm
3.	Manganese (Mn)	5.62	mg/100 gm
4.	Zinc (Zn)	10.91	mg/100 gm
5.	Iron (Fe)	74.26	mg/100 gm
6.	Selenium (Se)	65.0	mcg/100 gm

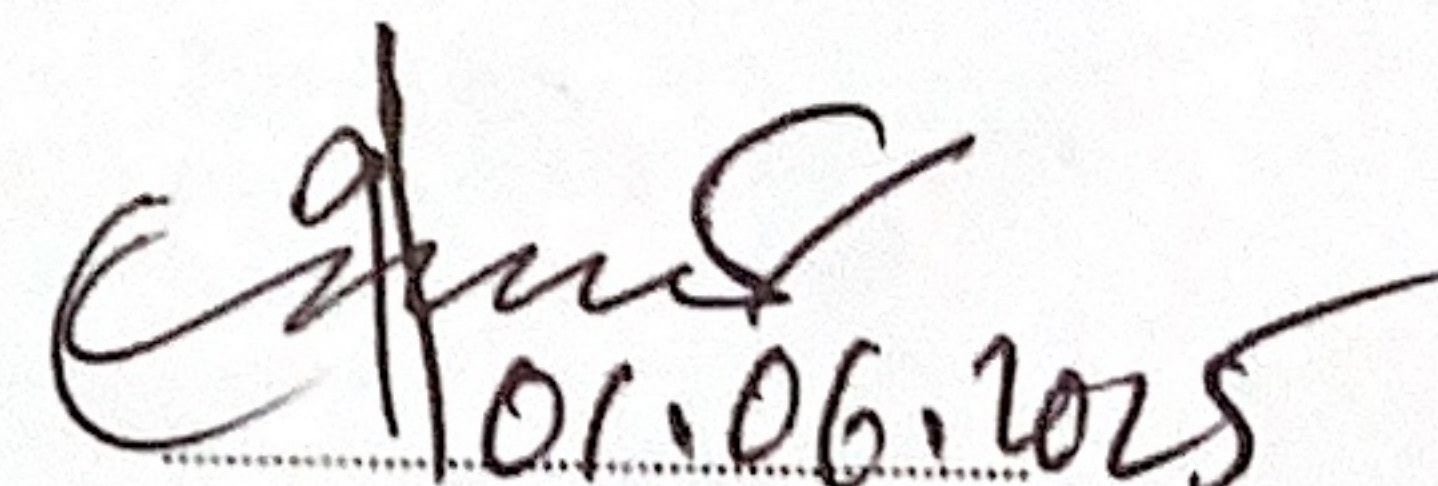
*Measured by Atomic Absorption Spectrophotometer (AAS)


01.06.2025

Analyst
Rajib Banik
Senior Scientific Officer
IFST, BCSIR
Dhaka-1205


01.06.2025

Section/Division In-charge
Mohammad Mahfuzur Rahman
Principal Scientific Officer,
Institute of Food Science and Technology,
Bangladesh Council of Scientific and Industrial Research


01.06.2025

In-charge/Director
Monzur Morshed Ahmed
Director (Addl. Charge)
Institute of Food Science & Technology
BCSIR, Dhaka

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Analytical Service Cell

Dr. Quadrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh.

Telephone: 9671108, Fax: 88-02-9671108, E-mail: asc@bcsir.gov.bd, Website: www.bcsir.gov.bd



Institute of Food Science & Technology (IFST)
Bangladesh Council of Scientific & Industrial Research (BCSIR)
Ministry of Science & Technology
Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh



Analysis Report

Analytical Service Cell Ref. No: F-508, 06/05/2025	Unit (Lab/Inst.) Ref. No: ifst
Lab ID: FM-138	Sample Receiving Date: 06/05/2025
Sample ID: F-508	Submission Date : 06/05/2025
	Report Delivery Date: 13/05/2025
Sample Description: সম্পূরক খাদ্য Name of the Product: অপটিমা বোনঅ্যাক্টিভ Manufacture Date: 03.05.2025 & Expiry Date: 02.05.2026	
Client's Details: NUTRICAA LTD মোবাইলঃ ০১৭১৪২১৭১৩১ ঠিকানাঃ নন্দীগ্রাম, ডৌহাখলা, কলতাপাড়া (ময়মনসিংহ- ভৈরব সড়ক), গৌরীপুর-২২৭০, ময়মনসিংহ ইমেইলঃ info@nutricaa.com	
Number of Samples: 01 (One)	

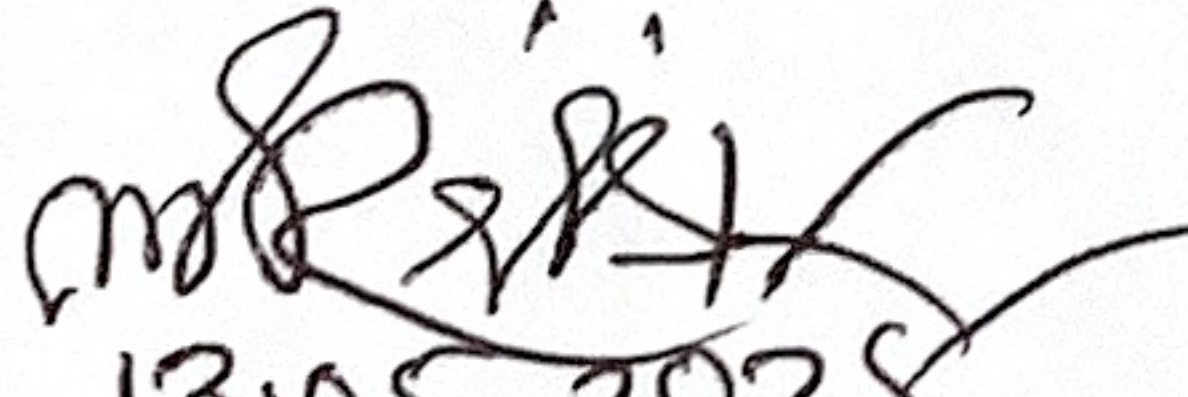
Report Details:

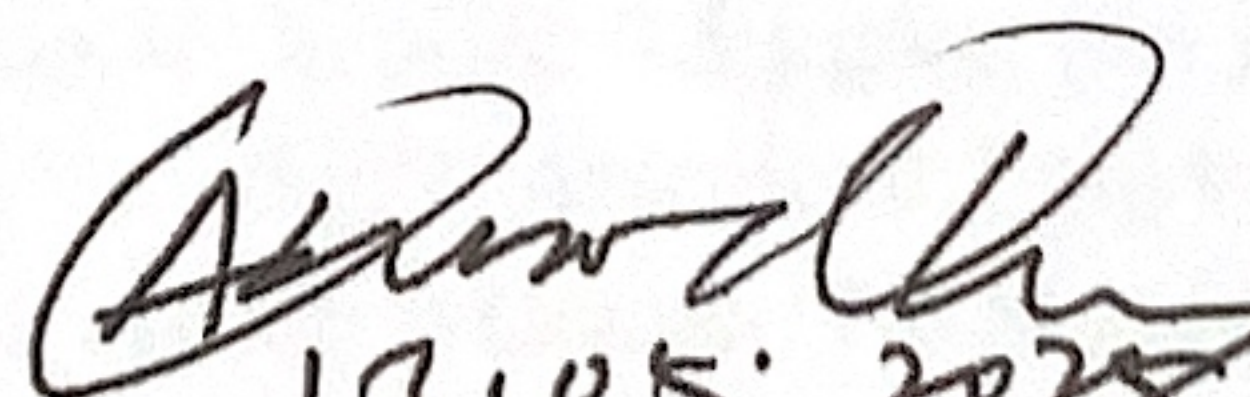
SI No.	Tests	Results
01	Total Plate Count (TPC), cfu/g	4.2x10 ²
02	Yeast and Mold, cfu/g	<10*
03	Total Coliform, MPN/g	<3**
04	Salmonella spp./25 g	Absent
05	Escherichia coli, MPN/g	<3**

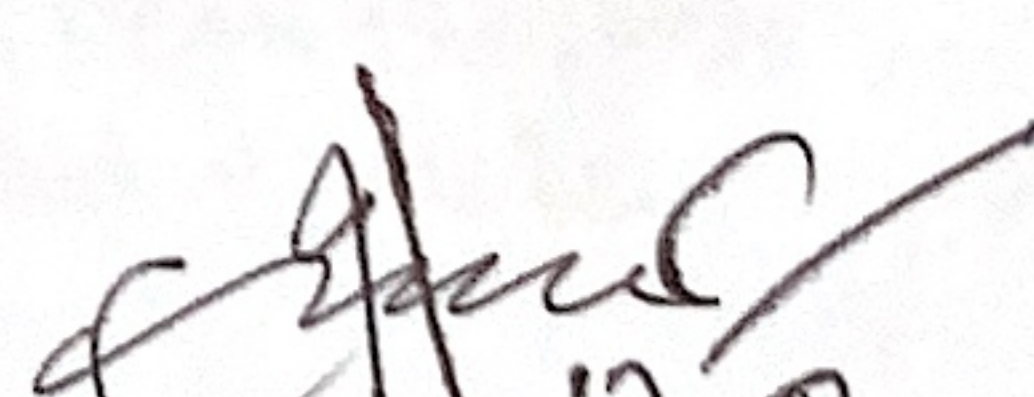
*<10 indicate the absence of a test organism in 1 g of sample.

** As per MPN (most probable number) chart, MPN <3 indicates the absence a of test organism in 1 g of sample.

Comments: The microbiological test results of the supplied sample are acceptable in quality.


13.05.2025
.....
Analyst
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13.05.2025
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Supervisor
Dr. Abhijit Chowdhury
Senior Scientific Officer
Food Microbiology Section
IFST, BCSIR
Dhanmondi, Dhaka-1205.


13.05.2025
.....
Director
Monzur Morshed Ahmed
Director (Addl. Charge)
Institute of Food Science & Technology
BCSIR, Dhaka

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Analytical Service Cell

Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh
Telephone: 9671108 FAX:88-02-9671108 E-mail:asc@bcsir.gov.bd Website: www.bcsir.gov.bd



“জীবনের জন্য বিজ্ঞান”

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BANGLADESH COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH (BCSIR)
Institute of Food Science & Technology (IFST)

ANALYSIS REPORT

ASC Ref No. : F-508 Unit (Lab/ Inst.) Ref No : Director, IFST, BCSIR, Dhaka.
Date- 06.05.2025 Date: 06.05.2025
Lab/ Sample ID : FTRS/250194 Number of Sample : 01 (One)
Sample Receiving Date : 06.05.2025
Sample Description: 1. Optima Bone Active Test Commencement Date : 07.05.2025
Test Completion Date : 21.05.2025
Report Delivery Date : 22.05.2025
Client's Details : Nutricaa Ltd.
Nandigram, Douhakhola,
Koltapara (Mymensingh-Bhoirab Road),
Gouripur-2270, Mymensingh.
Mobile: 01714217131 Ref. No. : Nil
Date : Nil

Details:

Serial No.	Description of Sample	Test Parameter	Detected/ Not detected	Amount
01	Optima Bone Active	Lead (Pb)*, in mg/kg	Detected	0.07
		Arsenic (As)*, in mg/kg	Not detected	--
		Cadmium (Cd)*, in mg/kg	Not detected	--
		Tin (Sn)*, in mg/kg	Detected	BDL***
		Copper (Cu)*, in mg/kg	Detected	BDL***
		Aflatoxins (B ₁ , B ₂ , G ₁ , G ₂)**, in µg/kg	Not detected	--
		Ochratoxin A**, in µg/kg	Not detected	--
		Aflatoxin M ₁ **, in µg/kg	Not detected	--

*BDL= Below Detection Limit

Method: *Atomic Absorption Spectrophotometer (AAS); **HPLC with fluorescence detector

Detection Limit: 0.05 mg/kg (Pb); 0.05 mg/kg (As); 0.05 mg/kg (Cd); 10.0 mg/kg (Sn); 0.5 mg/kg (Cu);
0.5 µg/kg (Aflatoxins); 1.0 µg/kg (Ochratoxin A); 0.25 µg/kg (Aflatoxin M₁).

Maximum Residue Limit (MRL): a) Aflatoxin B₁: 2 µg/kg; b) Aflatoxins (B₁, B₂, G₁, G₂): 4 µg/kg;
c) Ochratoxin A : 5.0 µg/kg [As per Commission Regulation (EC) No. 1881/2006]
d) Aflatoxin M₁ in milk: 0.5 µg/kg; [As per CODEX STAN 193-1995]
e) Lead: 0.5 mg/kg; f) Arsenic: 0.5 mg/kg; g) Cadmium: 0.5 mg/kg;
h) Tin: 250 mg/kg; i) Copper: No Standard
[As per USDA GAIN Report No: CH14058]

Comments : The above results were valid for the supplied Optima Bone Active sample.

M Begum
22/05/2025
Analyst

Tariqul
22.05.25
Supervisor

Monzur Morshed Ahmed
22-05-2025
Director / Officer In-Charge

Maksuda Begum
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MOHAMMAD TARIQUL HASSAN
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Monzur Morshed Ahmed
Director (Addl. Charge)
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BCSIR, Dhaka

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