



জীবনের জন্য বিজ্ঞান

বাংলাদেশ বিজ্ঞান ও শিল্প গবেষণা পরিষদ (বিসিএসআইআর)

BANGLADESH COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (BCSIR)

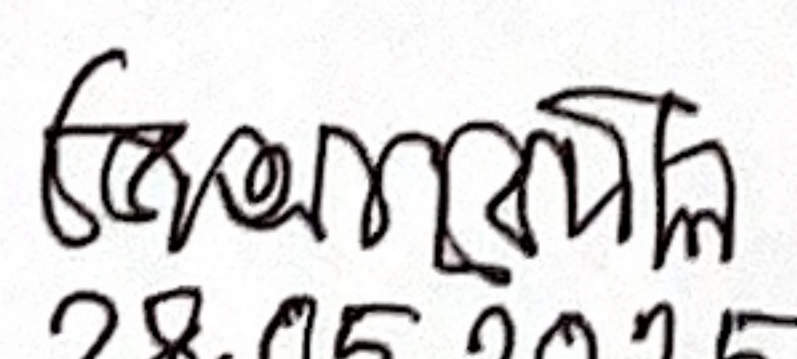
Institute Name: Institute of Food Science & Technology (IFST)

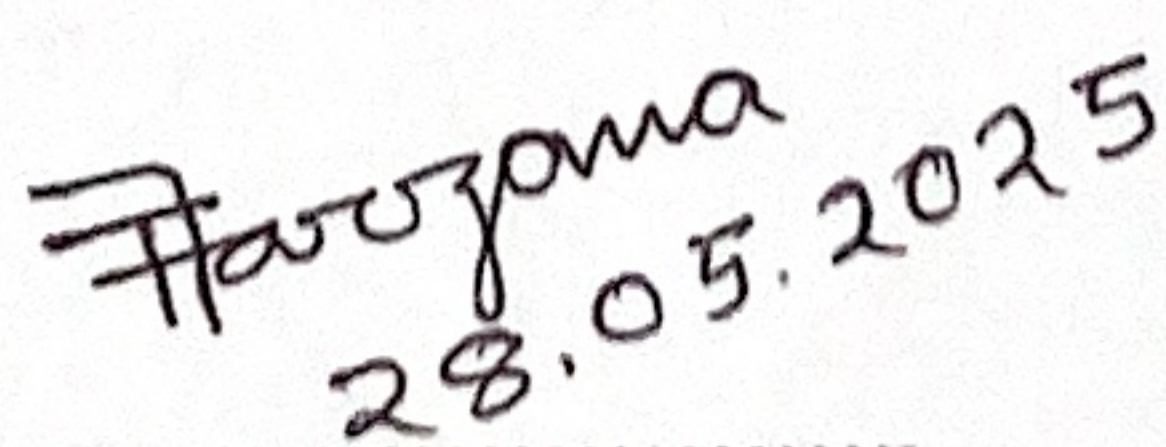
ANALYSIS REPORT

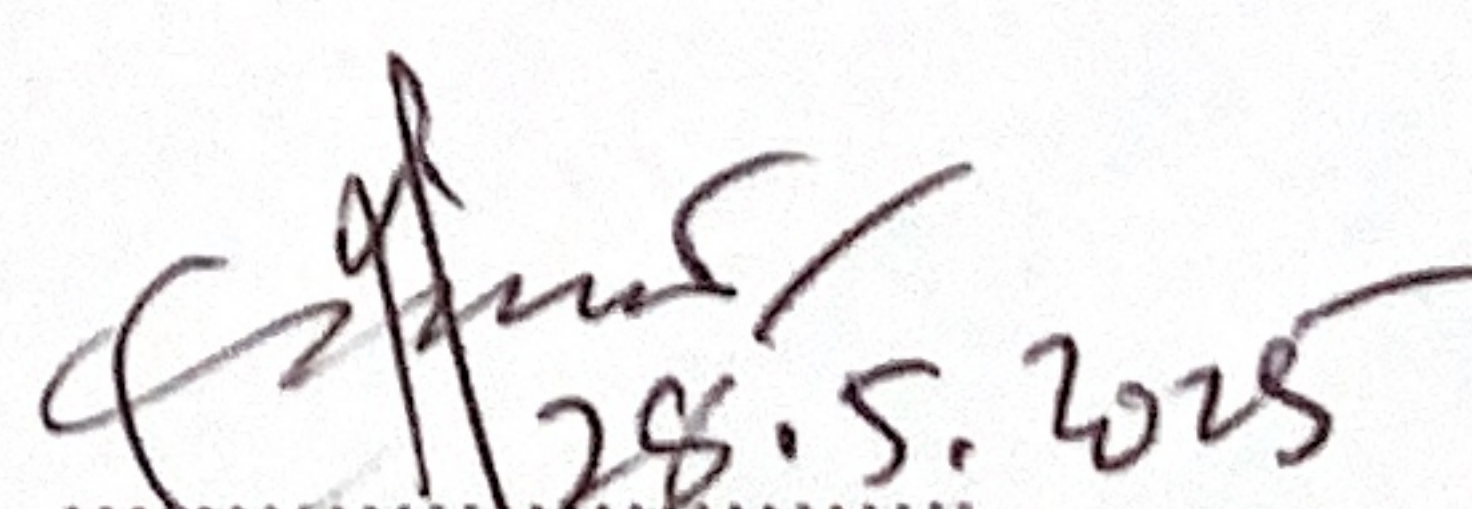
Analytical Service Cell, BCSIR, Dhaka Sample No. F-509, Date: 06.05.2025	Referred by: Nutricaa Ltd
No. of Sample: 01 (One)	Koltapara, Nandigram, Douhakhola,
Date of receipt: 06.05.2025	Gouripur, Mymensingh
Date of submission: 28.05.2025	Ref. No.: Nil
Particulars of Sample: অগটিমা ইমিউনা	

Report Details:

SN	Test Parameters	Results
1	Energy (Kcal/100 g)	451
2	Fat (g/100 g)	17.46
3	Protein (g/100 g)	21.98
4	Carbohydrate (g/100 g)	51.55
5	Dietary Fiber (g/100 g)	22.22
6	Sugar (g/100 g)	20.36
7	Sodium (mg/100 g)	485
8	Potassium (mg/100 g)	150
9	Cholesterol (mg/100 g)	0.0


28.05.2025
Analyst
Md. Jaynal Abedin
Senior Scientific Officer
Institute of Food Science and Technology
BCSIR, Dhanmondi, Dhaka-1205


28.05.2025
Lab in-charge
DR. TASNIM FARZANA
Principal Scientific Officer
Section-in-Charge
Quality Control Research Section
IFST, BCSIR, Dhaka-1205


28.5.2025
Director
Monzur Morshed Ahmed
Director (Addl. Charge)
Institute of Food Science & Technology
BCSIR, Dhaka

Note:

- The result reported above pertains only to the sample supplied in this laboratory.
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- 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.

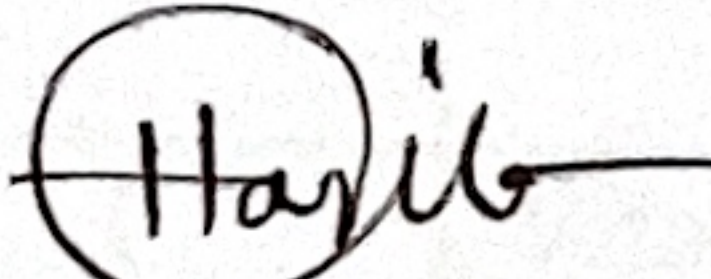


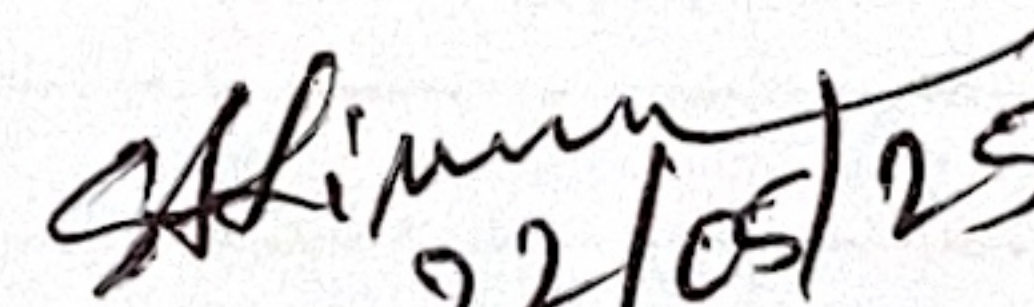
বাংলাদেশ বিজ্ঞান ও শিল্প গবেষণা পরিষদ (বিসিএসআইআর)
BANGLADESH COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH (BCSIR)
Institute of Food Science & Technology (IFST)
ANALYSIS REPORT

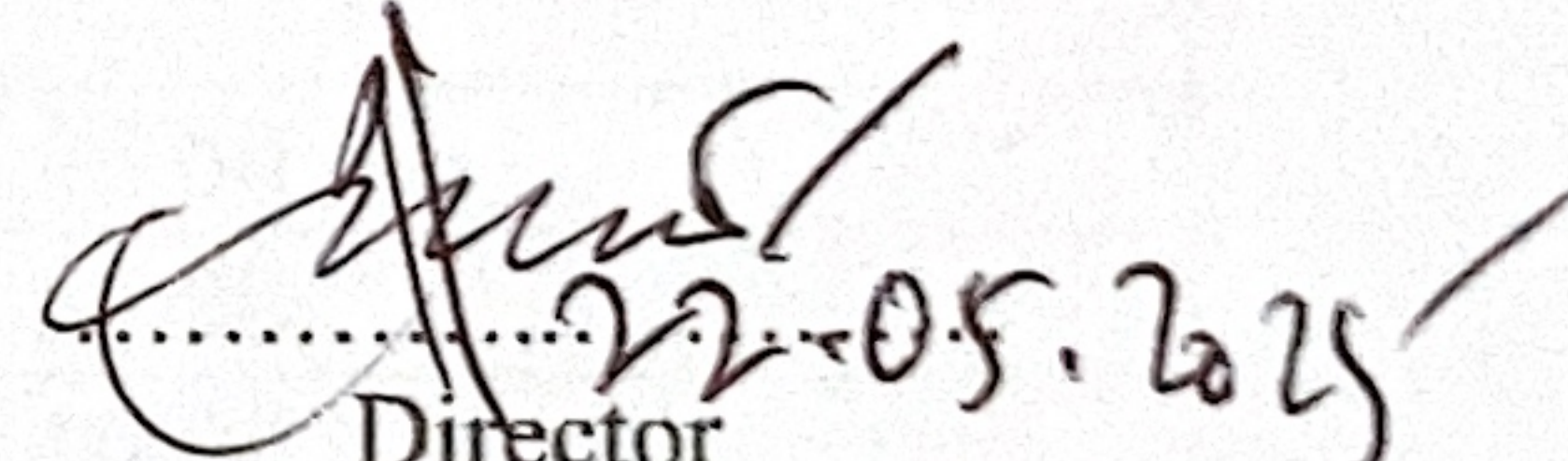
ASC Ref No. : F-509 Test Commencement Date : 19.05.2025
Date: 06.05.2025
Lab ID : OLT: 109/2025 Test Completion Date : 22.05.2025
Sample Description : অপটিমা ইমিউনো
Client's Details : নিউট্রিকা লিমিটেড
নন্দীগ্রাম, ডৌহাখলা, কলতাপাড়া, গৌরীপুর-২২৭০, ময়মনসিংহ
মোবাইল: ০১৭১৪২১৭১৩১

Results:

Sl. No.	Parameter	Unit	Result
1.	Saturated Fat	% (w/w)	3.22
2.	Trans Fat	% (w/w)	0.056


22.05.25
.....
Analyst
Md. Hasib Pathan
Scientific Officer
Institute of Food Science & Technology
BCSIR, Dhaka-1205


22/05/25
.....
Supervisor
Sharmin Akter Lisa
Senior Scientific Officer
Institute of Food Science & Technology
BCSIR, Dhaka-1205


22.05.25
.....
Director
Monzur Morshed Ahme
Director (Addl. Charge)
Institute of Food Science & Technology
BCSIR, Dhaka

Note:

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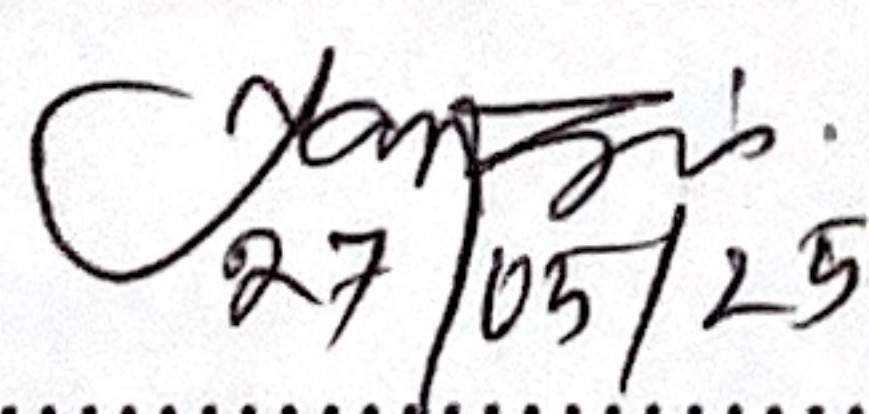
BANGLADESH COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH (BCSIR)
INSTITUTE OF FOOD SCIENCE AND TECHNOLOGY (IFST)**ANALYSIS REPORT**

ASC Ref No.: F-509, Date: 06.05.2025	Lab/Sample ID: M379
Sample Description: Optima Immuna	Number of Sample: 1 (One)
Client's Details: Nutricaa Ltd., Koltapora, Nandigram, Douhakhola, Gouripur, Mymensingh, Bangladesh	Test Commencement Date: 06.05.2025
Ref.No: Nil	Test Completion Date: 27.05.2025

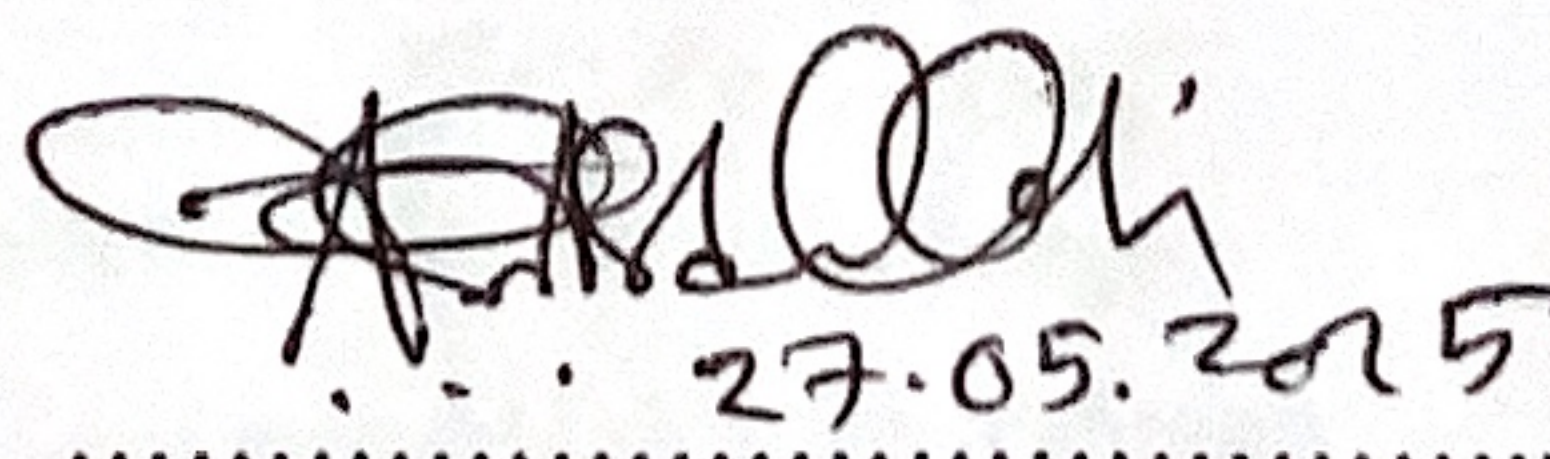
Details:

SL No.	Parameters	Results
1	Vitamin D ₃ *, mcg/100g	15.00
2	Vitamin E*, mg/100g	53.90
3	Vitamin K*, mcg/100g	10.00
4	Vitamin C*, mg/100g	720.13
5	Vitamin B ₁ *, mg/100g	24.88
6	Vitamin B ₂ *, mg/100g	5.96
7	Vitamin B ₃ *, mg/100g	8.74
8	Vitamin B ₅ *, mg/100g	29.94
9	Vitamin B ₆ *, mg/100g	6.80
10	Vitamin B ₉ *, mg/100g	2.48
11	Vitamin B ₁₂ *, mcg/100g	800.00

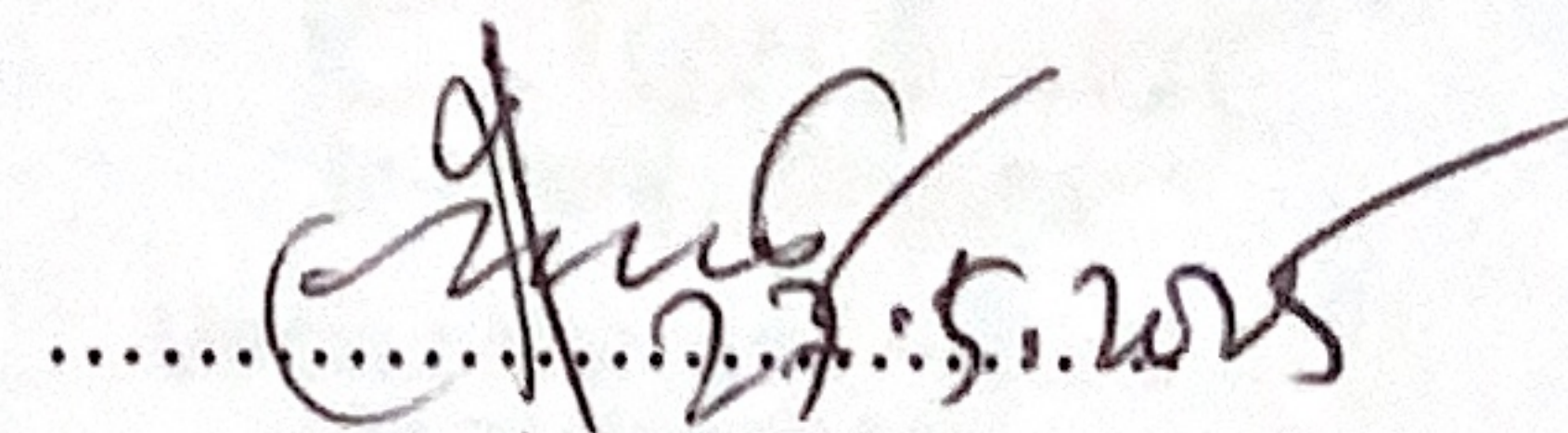
* Measured by High Performance Liquid Chromatography (HPLC)

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

27/05/25

Analyst

Tanzir Ahmed Khan
Principal Scientific Officer
Institute of Food Science and Technology
BCSIR, Dhaka-1205

27.05.2025

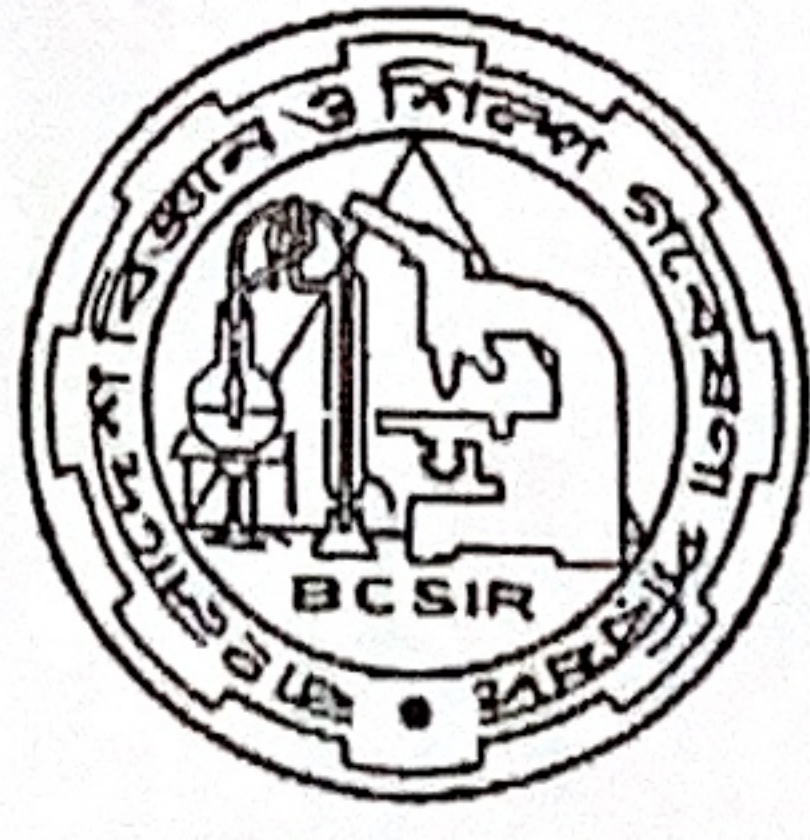
Supervisor

Abu Tareq Mohammad 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**Note:**

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জীবনের জন্য বিজ্ঞান

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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-509	Application Submission Date: 06/05/2025
Lab/Sample ID: P-023	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 Immuna. 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)	970.65	mg/100 gm
2.	Magnesium (Mg)	581.61	mg/100 gm
3.	Manganese (Mn)	5.02	mg/100 gm
4.	Zinc (Zn)	10.97	mg/100 gm
5.	Iron (Fe)	158.20	mg/100 gm
6.	Selenium (Se)	80.0	mcg/100 gm

*Measured by Atomic Absorption Spectrophotometer (AAS)

Rajib Banik
01.06.2025

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

Mahfuz
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

Monzur Morshed Ahmed
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-509, 06/05/2025	Unit (Lab/Inst.) Ref. No: ifst
Lab ID: FM-137	Sample Receiving Date: 06/05/2025
Sample ID: F-509	Submission Date : 06/05/2025
	Report Delivery Date: 13/05/2025
Sample Description: সম্পূরক খাদ্য Name of the Product: অপটিমা ইমিউনা Manufacture Date: 03.05.2025 & Expiry Date: 02.05.2026	
Client's Details: NUTRICAA LTD মোবাইলঃ ০১৭১৪২১৭১৩১ ঠিকানাঃ নন্দীগ্রাম, ডৌহাখলা, কলতাপাড়া (ময়মনসিংহ- ভৈরব সড়ক), গোরীপুর-২২৭০, ময়মনসিংহ ইমেইলঃ info@nutricaa.com	
Number of Samples: 01 (One)	

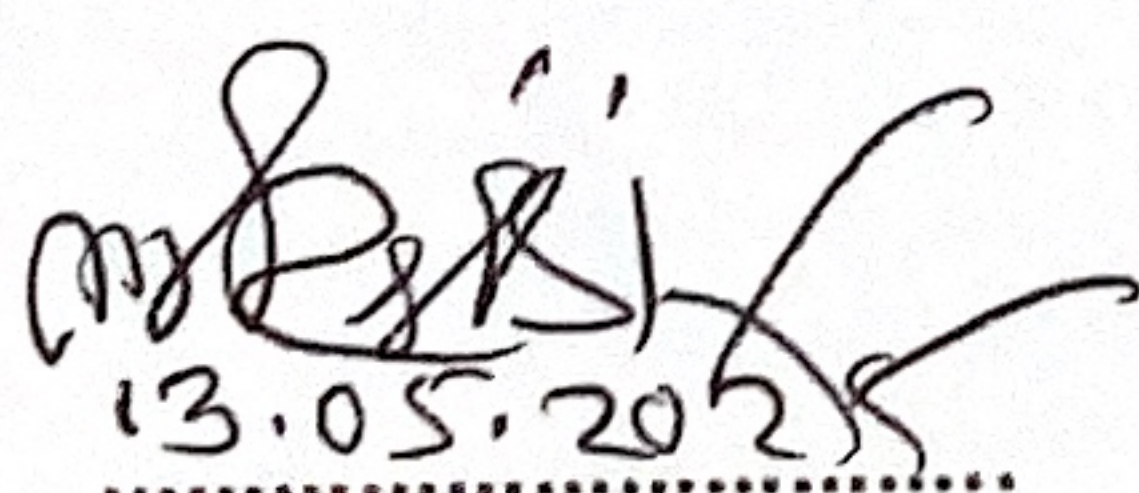
Report Details:

SI No.	Tests	Results
01	Total Plate Count (TPC), cfu/g	8.5x10 ²
02	Yeast and Mold, cfu/g	<10*
03	Total Coliform, MPN/g	<3**
04	<i>Salmonella</i> spp./25 g	Absent
05	<i>Escherichia coli</i> , MPN/g	<3**

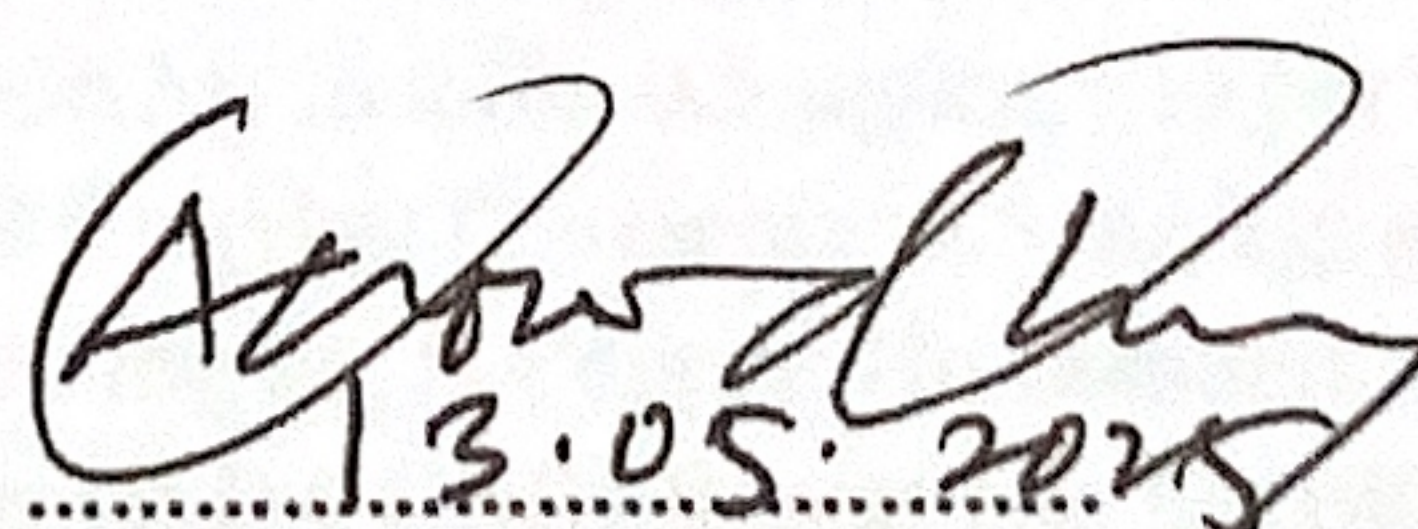
*<10 indicate the absence of a test organism in 1 g of sample.

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

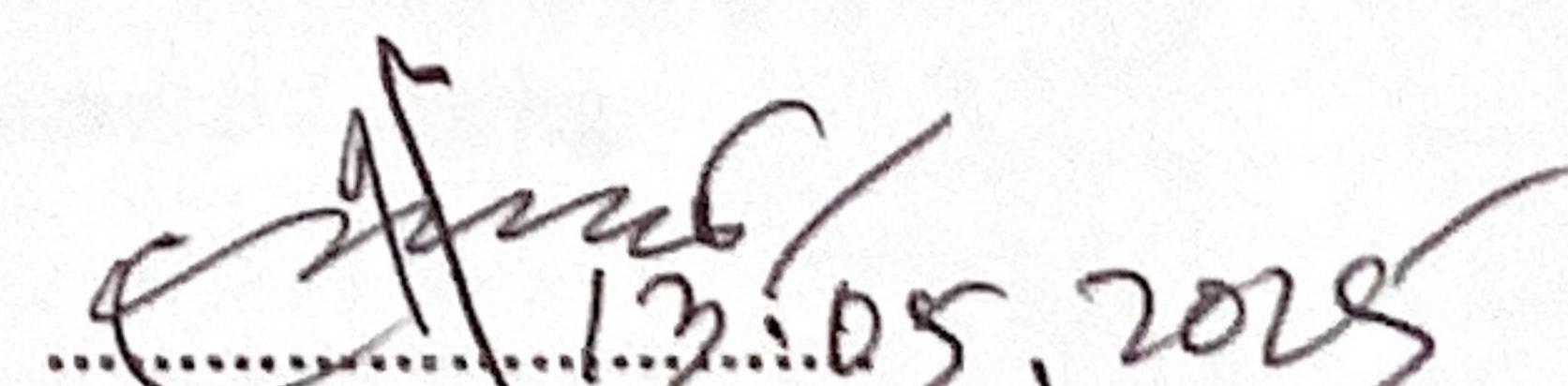
Comments: The microbiological test results of the supplied sample are acceptable in quality.


 13.05.2025

Analyst
Rajib Sarkar
 Senior Scientific Officer
 Food Microbiology Research Section
 IFST, BCSIR
 Dhanmondi, Dhaka-1205


 13.05.2025

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



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-509 Unit (Lab/ Inst.) Ref No : Director, IFST, BCSIR, Dhaka.
Date- 06.05.2025 Date: 06.05.2025
Lab/ Sample ID : FTRS/250195 Number of Sample : 01 (One)
Sample Receiving Date : 06.05.2025
Sample Description: 1. Optima Immuna 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 Immuna	Lead (Pb)*, in mg/kg	Detected	0.06
		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 Immuna sample.

M Begum
22/05/2025
Analyst

Maksuda Begum
Senior Scientific Officer
Institute of Food Science & Technology (IFST)
BCSIR, Dhanmondi, Dhaka-1205, Bangladesh

Sariful
22.05.25
Supervisor

MOHAMMAD TARIQUL HASSAN
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Monzur Morshed Ahmed
22.05.2025
Director / Officer In-Charge

Monzur Morshed Ahmed
Director (Addl. Charge)
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BCSIR, Dhaka

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