

Rak Fitness Consumer Private Limited

F-201, 1st floor, A- Block, Ansal Corporate
Plaza, Palam Vihar, Gurgaon, Haryana-
122017

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ANALYTICAL REPORT

Sample code: EKA1-25-04-10720

Sample Name: Chocolate Crunchy Peanut

Sample quantity: 350g

Sample Appearance: Dark Brown Colour Paste

Condition on receipt: Good

Sample packing: Sealed Plastic Container

Environmental Condition: Temp: 41°C | RH: 15%

Customer provided details: Batch No: CHCR SFCD-
24 | Lot Quantity: 2814 Kgs (8040 Jar x 350 gram)

Received On: 29/04/2025

Analysed between: 01/05/2025 to 15/05/2025

Sampling Details: Sampled by Eureka

Sampling Procedure: EKA-MSP-17

Sampling date: 26/04/2025

Sampling Location: Dhanwada (Bavla)

Job File Reference: EKA-2025-1511-11-A

Seal No: 576558

Test Results

Sr.No.	Test Code	Test Parameter	Test Method	Result	Unit	LOQ
CHEMICAL						
1	E1NI405	Total Sugars	FSSAI manual for beverages, Sugar & Confectionary Products, clause No: -6.4, Page No: -33:2015	15.42	g/100 g	0.5
2	E1NI1772	Protein	IS 7219: 1973	24.80	g/100 g	0.1
3	E1NI5054	Total Fat	AOAC 21st edition 996.06: 2019	44.78	g/100 g	0.1
4	E1NI1773	Carbohydrates	EKA-CHE-SOP-40	17.38	g/100 g	0.1
5	E1NI1771	Energy	EKA-CHE-SOP-40	571.74	Kcal/100 g	-
6	E1NI814	Added Sugars	FSSAI manual for beverages, Sugar & Confectionary Products, clause No: -6.4, Page No: -33:2015	15.68	g/100 g	0.5
INORGANIC						
7	E1II175	Sodium	EKA-CHE-SOP-47	62.98	mg/100g	0.1
8	E1II75	Arsenic as As	EKA-CHE-SOP-47	BLQ	mg/kg	0.05
9	E1II25	Lead as Pb	EKA-CHE-SOP-47	BLQ	mg/kg	0.05
10	E1II76	Cadmium as Cd	EKA-CHE-SOP-47	0.034	mg/kg	0.01
11	E1II87	Mercury as Hg	EKA-CHE-SOP-47	BLQ	mg/kg	0.01

LOQ: Limit of Quantification,

BLQ: Below Limit of Quantification.

Eureka Analytical Services Pvt Ltd,

AB Square, #617, 5th Main, OMBR Layout, Kasturi Nagar main road, Banaswadi Bangalore-560043

Email: info@eurekaserv.com, Website: www.eurekaserv.com, CIN: U73100KA2019PTC127732



Mr Varaprasad A Babu

Authorised Signatory

Chemical

Note: "This report supersedes Report code TR-25-EKA1-042175-01 dated- 08/05/2025, due to retest of results and previous version stands cancelled".

The results may not be reproduced except in full, without written approval from laboratory. The results relate only to the above analysed sample.

Note: Any modification or editing in any manner, of a test report issued by Eureka is not permitted and is illegal. Eureka retains the right to proceed with legal action against the concerned in case of any such instance coming to light.

***** END OF REPORT *****

Heavy Metals Analysis & Methodology

The **FSSAI (Food Safety and Standards Authority of India)** has specified **maximum limits for heavy metals** like **Arsenic, Cadmium, Lead, and Mercury** under the **Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011** and related updates.

Heavy Metals Limits as per FSSAI for Health Supplements & Nutraceuticals (including Protein Powders)

Heavy Metal	Maximum Limit (mg/kg or ppm)
Lead (Pb)	2.5 mg/kg
Arsenic (As)	1.1 mg/kg
Cadmium (Cd)	1.5 mg/kg
Mercury (Hg)	1.0 mg/kg

Reference:

- **FSSAI Comp_Contaminants_Regulations_2_4_2025_VIII.pdf** (latest consolidated update)
- **Applicable for food categories 13.6**, which covers **Food Supplements- Nutraceuticals**

These limits are applied **per kg of the finished product**.

Important Notes:

- These limits apply **irrespective of the source**—whether synthetic, plant-based, or animal-based.
- Compliance is typically tested by accredited labs using methods such as **ICP-MS** or **AAS**.
- Here's a difference between both the method that are used to analyze/ detect the heavy metals:

Feature	ICP-MS	AAS
Sensitivity	Extremely high (ppt to ppb)	Moderate (ppb range)
Speed	Very fast (multi-element detection)	Slower (one element at a time)
Cost	Expensive equipment	Relatively low-cost
Application	Trace metals in complex matrices	Routine metal testing

- FSSAI may revise limits based on new scientific risk assessments, so staying updated with FSSAI notifications is recommended.