TEST REPORT
IE-2025-0202

1. CUSTOMER DATA

1.1	Client	:	GRUPO AYNIPERU E.I.R.L
1.2	Tax ID or National ID	:	20612174319
1.3	Address	:	AV MACAMANGO S/N

2. SAMPLE DATA

2.1	Product	:	FOOD
2.2	Sampled by	:	CUSTOMER (c)
2.3	Number of Samples	:	01
2.4	Date of Receipt	:	April 7, 2025
2.5	Trial Period	:	March 28, 2025 to April 4, 2025
2.6	Date of Issue	:	April 5, 2025
2.7	Date and Time of Sampling	:	Not specified
2.8	Quote No.	:	COT-102204-SL25

3. TEST REQUESTED - METHODOLOGY USED

TEST	METHOD
Determination of Cadmium (Cd)	Atomic absorption spectrometry
Determination of Lead (Pb)	Atomic absorption spectrometry
Determination of Mercury (Hg)	Atomic absorption spectrometry
Determination of Arsenic (As)	Atomic absorption spectrometry
Determination of Flavonoids	UV-Visible Spectrophotometry
Determination of Ochratoxin A	UNE-EN 17641:2023 Multiple method for the determination of aflatoxins, deoxynivalenol, fumonisins, ochratoxin A, T-2 toxin, HT-2 toxin, and zearalenone by LC-MS/MS
Determination of Polycyclic Aromatic Hydrocarbons (PAHs)	EPA METHOD 8270 E Rev. 06. Semivolatile Organic Compounds By Gas Chromatography/ Mass Spectrometry (GC/MS)
Pesticide Residues LC-MS / GC-MS	UNE-EN 15662:2019 Plant-based foods. Multiple method for the determination of pesticide residues by GC and LC analysis after extraction with acetonitrile and cleanup by dispersion SPE. QuEChERs method - pesticide screening
Determination of theobromine	HPLC (High Performance Liquid Chromatography)
Caffeine determination	AOAC Official Method 962.13 21st Edition 2019. Caffeine in nonalcoholic beverages

4. RESULTS

4.1. SAMPLE DESCRIPTION: Cocoa powder: Determination of cadmium, arsenic, mercury, lead, flavonoids, Ochratoxin A, Polycyclic Aromatic Hydrocarbons (PAHs), Pesticide Residues, Caffeine, and Theobromine

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4.2. RESULTS

Table No. 1: RESULTS OBTAINED

Laboratory code	Parameter	Unit	Results
S-0226	Determination of Cadmium (Cd)	mg/kg	< 0.002
S-0226	Determination of Lead (Pb)	mg/kg	< 0.01
S-0226	Determination of Mercury (Hg)	mg/kg	< 0.002
S-0226	Arsenic (Hg) determination	mg/kg	< 0.001
S-0226	Determination of Total Flavonoids:	mg/g	9.5
	Epicatechin	mg/g	4.5
	Catechin	mg/g	1.4
	Total proanthocyanidins	mg/g	3.6
S-0226	Determination of Ochratoxin A	µg/kg	< 0.3
S-0226	Determination of Polycyclic Aromatic Hydrocarbons (PAHs)	µg/kg	< 0.05
S-0226	Pesticide Residues LC-MS / GC-MS	-	Compliant
S-0226	Theobromine Determination	mg/g	14.1
S-0226	Caffeine determination	mg/g	3.2

DIEGO ROMANO VERGARAY D'ARRIGO
QUÍMICO
CQP. 1337

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(c) Information provided by the customer.

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- The results relate only to the items tested.
- This laboratory is accredited in accordance with the recognized international standard ISO/IEC 17025. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system.

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