

CERTIFICATE OF ANALYSIS N° 159-21

PRODUCT	:	BLACK MACA POWDER
PRESENTATION	:	BAG x 5 Kg / BOX x 20 Kg
LOT	:	MNCPCE110210121
MANUFACTURED DATE	:	02/11/2021
ANALYSIS DATE	:	02/11/2021
BEST BEFORE	:	01/11/2023

1. - ORGANOLEPTICAL CHARACTERISTICS

ASSAY	SPECIFICATIONS	RESULTS	CONCLUSION
Appearance	Homogeneous powder	Homogeneous powder	APPROVED
Colour	Pale Brown	Pale Brown	APPROVED
Odor	Characteristic to maca	Characteristic to maca	APPROVED
Taste	Characteristic	Characteristic	APPROVED

2.- PHYSICAL CHEMICAL CHARACTERISTICS

ASSAY	SPECIFICATIONS	RESULTS	CONCLUSION
Loss on drying	< 10 %	5 %	APPROVED

3. - MICROBIOLOGICAL SPECIFICATIONS

ASSAY	SPECIFICATIONS	RESULTS	CONCLUSION
Aerobic Mesophiles count	≤ 100 000 CFU/g	91 000 CFU/g	APPROVED
E. coli	≤ 10 CFU/g	< 10 CFU/g	APPROVED
Molds Count	≤ 1 000 CFU/g	110 CFU/g	APPROVED
Yeasts Count	≤ 1 000 CFU/g	50 CFU/g	APPROVED
Salmonella sp.	Absent/25g	Absent/25g	APPROVED
Total Coliforms	≤ 10 CFU/g	< 10 CFU/g	APPROVED

METHODS:

Detection of Salmonella: ICMSF food microorganisms. Their significance and methods of enumeration p. 172- 176 PTO. 10 (a) y (c), 177 II - 178 III 2d ed. 1983 Reprint 2000.

Enumeration of E. Coli: ICMSF food microorganisms. Their significance and methods of enumeration E. Coli p. 138-142, 2nd Ed. 1983 Reprint 2000.

Mesophiles aerobic microorganism Count: ICMSF food microorganisms. Their significance and methods of enumeration p. 117-123, 2nd Ed. 1983 Reprint 2000.

Molds Count: ICMSF food microorganisms. Their significance and methods of Molds enumeration p. 166-166, 2nd Ed. 1983 Reprint 2000.

Yeasts extract: ICMSF food microorganisms. Their significance and methods of Yeasts enumeration p. 166-166, 2nd Ed. 1983 Reprint 2000

Enumeration of coliforms: ICMSF food microorganisms. Their significance and methods of enumeration method 1 p. 132-134, 2nd Ed. 1983 Reprint 2000.

Loss on drying: NTP 205.037 1975 (Revised to 2011.) Flours. Determination of moisture.

SHELF LIFE:

24 months complying with good storage conditions.

STORAGE:

Keep in a cool and dry place, covered, cleaned and free of pollution.


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