



BIOPTIMAL

CERTIFICATE OF ANALYSIS / CERTIFICADO DE ANALISIS: N° 0007-25

PRODUCT / PRODUCTO	: MACA ORGANIC POWDER / : MACA ORGANICA POLVO
CODE / CODIGO	: 2947
SCIENTIFIC NAME / NOMBRE CIENTÍFICO	: <i>Lepidium meyenii</i> Walp
COMMON NAME / NOMBRE COMUN	: Maca
BATCH / LOTE	: 22010345 ORG
BATCH MP/ LOTE MP	: 240748
COMPOSITION / COMPOSICION	: Maca Organic root / Maca raíz Orgánica: 100%
PRESENTATION / PRESENTACION	: Double-layered PE bag x 500g and x 750g / Bolsa doble capa de PE x 500g y 750g
EXPIRATION DATE / FECHA DE EXPIRACIÓN	: 2027-12-22
MANUFACTURE DATE / FECHA DE MANUFACTURA	: 2024-12-22
ANALYSIS DATE / FECHA DE ANALISIS	: 2024-12-22
SOURCE COUNTRY / PAIS DE ORIGEN	: Peru / Perú

ORGANOLEPTIC CHARACTERISTICS / CARACTERISTICAS ORGANOLEPTICAS

TEST / ENSAYO	SPECIFICATIONS / ESPECIFICACIONES	RESULTS / RESULTADOS
Appearance / Aspecto	Homogeneous powder without any impurity / Polvo homogéneo sin ninguna impureza	Conform / Conforme
Color / Color	Beige / Beige	Conform / Conforme
Odor / Olor	Characteristic / Característico	Conform / Conforme
Taste / Sabor	Characteristic / Característico	Conform / Conforme

PHYSICO-CHEMICAL CHARACTERISTICS / CARACTERISTICAS FISICO QUIMICAS

TEST / ENSAYO	SPECIFICATIONS / ESPECIFICACIONES	RESULTS / RESULTADOS
Humidity / Humedad	Less than / Menor a: 8 %	3.27 %.
Gluten/Gluten	Less than / Menos de 10 ppm	Conform / Conforme
Particle size (60 mesh) / Tamaño de partícula (Malla 60)	Greater equal to / Mayor o igual a 95 %	99.5 %.

MICROBIOLOGICAL CHARACTERISTICS / CARACTERISTICAS MICROBIOLOGICAS

TEST / ENSAYO	SPECIFICATIONS / ESPECIFICACIONES	RESULTS / RESULTADOS
Aerobic Mesophiles Count / Conteo de Aerobios Mesófilos.	Less than / Menor a: 100 000 cfu/g / ufc/g	1 000 cfu/g / ufc/g
Molds Count / Conteo de Mohos.	Less than / Menor a: 1 000 cfu/g / ufc/g	<100 cfu/g / ufc/g
Yeast Count / Conteo de Levaduras.	Less than / Menor a: 1 000 cfu/g / ufc/g	<100 cfu/g / ufc/g
Escherichia coli.	<10 cfu/g / ufc/g	<10 cfu/g / ufc/g
Coliforms / Coliformes	<100 cfu/g / ufc/g	<10 cfu/g / ufc/g
Salmonella sp.	Absent / Ausente / 25g	Absent / Ausente /25g

Informations transmises par notre fournisseur



ADDITIONAL ANALYSIS / ANALISIS ADICIONALES

PESTICIDES RESIDUES / RESIDUOS PLAGUISIDAS

TEST / ENSAYO	SPECIFICATIONS / ESPECIFICACIONES	RESULTS / RESULTADOS
Total Pesticides / Pesticidas totales	Absent / Ausente	Absent / Ausente

HEAVY METALS / METALES PESADOS

Lead / Plomo	Not more than / No más de: 1.0 ppm	0.052 ppm
Mercury / Mercurio	Not more than / No más de: 0.1 ppm	< 0.005 ppm
Arsenic / Arsénico	Not more than / No más de: 1.0 ppm	0.037 ppm
Cadmium / Cadmio	Not more than / No más de: 1.0 ppm	0.219 ppm

AOAC official method 990.12 Aerobic Plate Count in Foods Dry Rehydratable Film Method (Petrifilm Aerobic Count Plate)

AOAC official method 997.02 Yeast and Mold Counts in Food Dry Rehydratable Film Method (Petrifilm Method)

AOAC official method 991.14 Coliform and Escherichia Coli Counts in Foods Dry Rehydratable Film Method (Petrifilm E. coli/Coliform Count Plate and Petrifilm Coliform Count Plate)

AOAC official method 989.13 Motile Salmonella in all foods immunodiffusion 1-2 test Method

Semi-quantitative Immunochromatographic Detection of Gliadin and gluten in surfaces, raw materials and food declared as gluten free (Rida Quick Gliadin)

ICP/MS - Espectrometría de Masas con Plasma Acoplado Inductivamente – HEAVY METALS

METODO GC/MS-MS – LC/MS-MS (CROMATOGRAFIA GASEOSA – MASA MASA/ CROMATOGRAFIA LIQUIDA – MASA MASA -Pesticide

CONCLUSION / CONCLUSION:

APPROVED / APROBADO



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