



**EXCELSIOR  
ALCHEMY**

INTEGRITY, PASSION, EXCELLENCE

# CERTIFICATE OF ANALYSIS

PRODUCT NAME	MACAFORCE	DATE OF MANUFACTURE	FEBRUARY, 2024
FORMULA CODE	EFMF400	EXPIRATION DATE	FEBRUARY, 2027
LOT NUMBER	23101340	CUSTOMER	HEALTHFORCE SUPERFOODS
VERSION NUMBER	3.5		
CERTIFICATION STATUS	95% ORGANIC / KOSHER		
CERTIFIED BY	OREGON TILTH / ORTHODOX UNION		

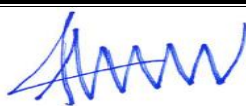
ANALYSIS	SPECIFICATION	RESULT	METHOD
<b>PHYSICAL</b>			
APPEARANCE	Powder	Powder	Organoleptic
COLOR	Light brown	Light brown	Organoleptic

<b>HEAVY METALS</b>			
ARSENIC (TOTAL)	NMT 1 µg/g (ppm)	0.715 µg/g (ppm)	EPA-600/R-94-111 ICP-MS
CADMIUM	NMT 0.4 µg/g (ppm)	0.274 µg/g (ppm)	EPA-600/R-94-111 ICP-MS
LEAD	NMT 0.4 µg/g (ppm)	0.294 µg/g (ppm)	EPA-600/R-94-111 ICP-MS
MERCURY	NMT 0.2 µg/g (ppm)	<0.00500 µg/g (ppm)	EPA-600/R-94-111 ICP-MS

<b>CHEMICAL</b>			
COMPOSITION	Conforms to reference	Conforms	HPTLC
IDENTITY	Conforms to reference	Conforms	HPTLC
PURITY	Presence of bands characteristics of <i>Lucuma</i> fruit	Conforms	HPTLC
MACAENE	NLT 1 mg/g	1.48 mg/g	UPLC (MISC_OC)
MACAMIDE	NLT 1 mg/g	1.27 mg/g	UPLC (MISC_OC)
GLUTEN ALLERGEN	NMT 10 ppm	< 10 ppm	EZ Gluten

<b>MICROBIOLOGICAL</b>			
TOTAL PLATE COUNT	< 750,000 CFU/g	500 CFU/g	3M Petrifilm
YEAST & MOLD	< 1,000 CFU/g	< 100 CFU/g	3M Petrifilm
ENTEROBACTERIACEAE	< 5,000 CFU/g	< 100 CFU/g	3M Petrifilm
COLIFORMS	< 5,000 CFU/g	< 100 CFU/g	3M Petrifilm
<i>E. COLI</i>	None Present	None Detected	3M Petrifilm
<i>S. AUREUS</i>	None Present	None Detected	3M Petrifilm
<i>SALMONELLA</i>	None Present	None Detected	3M Petrifilm

<b>NOTE</b>	
ppm = Parts Per Million	NMT = Not More Than
cfu/g = Colony-Forming Units Per Gram	NLT = Not Less Than

<b>APPROVED BY</b>	
	02/13/2024
MICHELLE LEONARDO QUALITY MANAGER	DATE