



Specification Sheet

Date Revised: 01/04/2016

Product: Standardized MACA Powder 0.6%			Product Name : Maca6Mega0.6®		
Product Code: M6M0.6®			Technical Administrator: Mary Gabriel <i>Mary Gabriel</i>		
PLANT SPECIES: Lepidium meyenii walp			Part used: Root		
SOURCE: Peru Premium Extracts, Lima, Peru			Harvest Time: July-Oct		
<i>Complies with all current USP/NF</i>					
Standardization: Water & Ethanol (mostly water)			Residue solvent: <50ppm (USP<467>)		
Item	Specification	Method of Analysis			
Appearance:	Cream colored powder	Visual			
Identity :	spectrum must match MACA IR reference	HPTLC IR reference USP36/NF31			
Odor/Taste :	Characteristic of MACA				

<u>Active Ingredients</u>	<u>Specification</u>	<u>Method of Analysis</u>
Macamides & Macaenes	≥ 0.6%	HPLC

Pesticide Evaluation

Organophosphorus Insecticides		GC-MS,USP 36, NF31
Diechlorvos	ND	
Fonofos	“	
Diazanon		
Parathion-methyl		
Chlorpyrifos-mythyl	“	
Pirimiphos-mythyl		
Malathion		
Parathion		
Chlorpyrifos	«	
Methidathion		
Ethion		
Carbophenothion		
Azinphos-methyl		
Phosalone		
Organochlorine & Pyrethroid Insecticides	ND	GC-MS,USP36, NF 31
<i>alfar</i> -Hexachlorocyclohexane	“	
Hexachlorobenzene		
<i>bata</i> -Hexachlorocyclohexane		
Lindane		
<i>gamma</i> -Hexachlorocyclohexan		
Heptachlor		
Aldrin		
Heptachlor epoxide	ND	

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Pesticide Evaluation

<i>o' p' -DDE</i>	ND	GC_USP36NF31
alfar-Endosulfan		
Dieldrin		
<i>p' p' -DDE</i>		
Endrin		
Endosulfan		
<i>o' p' -DDT</i>		
Carbophenothion		
Organochlorine & Pyrethroid	“	
Insecticides		
<i>p' p' -DDT</i>		
Permethrin		
<i>Trans-Permethrin</i>		
Cypermethrin		
Fenvalerate		
Deltamathrin		

<u>Heavy metals / Must Meet USP Limits <10mg/kg</u>	<u>Actual Results of crop</u>	USP method 231
Arsenic	< 0.50mg/kg	<0.20mg/kg ICP/MS
Cadmium	< 0.50mg/kg	<0.50mg/kg AICP05A
Copper	< 3.00mg/kg***	<2.00mg/kg ICP/MS
Lead	< 0.20mg/kg	<0.20mg/kg ICP/MS
Mercury	< 0.50mg/kg	<0.50mg/kg ICP/MS
Zinc	< 3.00mg/kg***	<2.00mg/kg ICP/MS

*** Specifications on zinc & copper were set based on tests results of several samples of new crop.
 No FDA and/or USP limits are posted or determined. Specifications are only listed for information purposes & may exceed limits as garlic is a natural product & nothing is added in its process.

<u>Bulk Density(untapped)</u>	0.42-0.62 g/ml or cc	USP36NF31
<u>Moisture</u>	7.0% max	USP36NF31.
<u>Granulation/Mesh</u>		
% on US #35	0% max	USP36NF31
% on US #45	0%min-1% max	USP36NF31
% on US # 80	10% min-15% max	USP36NF31
% on US #100	40% min-50% max	USP36NF31

Microbiological

Total plate Count	<75,000 cfu/g	(Same as USP<2021,2022>)	AOAC 966.23
Yeast and Mold	<100 cfu/g		FDA-BAM 7 th ed.
Coliforms	<20 cfu/g		AOAC 966.23
E.Coli	negative		AOAC 966.23
Pseudomonas	negative		AOAC /BAM
Salmonella	negative		AOAC /BAM
Staph Aureus	negative		AOAC /BAM

Ingredients: 100% Standardized MACA root powder, no chemicals or additives , No ETO Treatment & No irradiation.

Storage Conditions & shelf life:

Store in a cool, dry place, do not freeze. Shelf life is three (3) years if handled properly.