



Specification Sheet – Revised 03/15/2012

page 1 of 2

PRODUCT: New-Gar® deodorized 10000 Allicin powder garlic (U)
PRODUCT CODE No.: NG10000P **Technical Administrator:** Dr Sami Zoorob
PLANT SPECIES: *Allium Sativum* *Sami Zoorob*
Part used: Bulb **Complies with all current USP/NF**
SOURCE/partner: Harmoni Zhengzhou International, Henan, China **HARVEST TIME:** June/July

Item	Specification	Method of Analysis
Appearance:	White to light tan powder	Visual
Identity :	spectrum must match garlic powder IR reference	Botanical ID, chain of custody, Organoleptic, FT-IR
<u>Active Ingredients</u>	<u>Specification</u>	<u>Method of Analysis</u>
Allicin Potential	Min. 10,000 ppm	C-18 HPLC
Alliin *	25,000 ppm	C-18 HPLC
Gamma-glutamylcysteines *	24,000 ppm	C-18 HPLC
Total Thiosulfinates *	10,000 ppm	C-18 HPLC
Total Sulfur	VARIES	AOAC 990.28

Pesticide Evaluation (For specific values , please go to our website & check crop pesticides report)

Organophosphorus Insecticides		GC-MS, USP31, NF26
Diechlorvos	ND	
Fonofos	“	
Diazanon		
Parathion-methyl		
Chlorpyrifos-mythyl	“	
Pirimiphos-mythyl		
Malathion		
Parathion		
Chlorpyrifos	«	
Methidathion		
Ethion		
Carbophenothion		
Azinphos-methyl		
Phosalone		
Organochlorine & Pyrethroid	ND	GC-MS, USP31, NF26
Insecticides		
alfar-Hexachlorocyclohexane	“	
Hexachlorobenzene		
bata-Haxachlorocyclohexane		
Lindane		
gamma-Haxachlorocyclohexan		
Heptachlor		
Aldrin		
Heptachlor epoxide	ND	

PRODUCT: Deodorized New-Gar @10000 ppm allicin powder Garlic (NG10000P)		
	<u>Specification</u>	<u>Method of Analysis</u>

Pesticide Evaluation

<i>o' p'</i> -DDE	ND	GC_USP31NF26
alfar-Endosulfan		
Dieldrin		
<i>p' p'</i> -DDE		
Endrin		
Endosulfan		
<i>o' p'</i> -DDT		
Carbophenothion		
Organochlorine & Pyrethroid Insecticides	“	
<i>p' p'</i> -DDT		
Permethrin		
<i>Trans</i> -Permethrin		
Cypermethrin		
Fenvalerate		
Deltamathrin		

<u>Heavy metals</u> / Must Meet USP Limits	<10mg/kg	<u>Actual Results of crop 2012</u>	USP method 231
Arsenic	< 0.50ppm	28ppb	ICP/MS
Cadmium	< 0.50mg/kg	<0.50mg/kg	AICP05A
Copper	< 3.0 mg/kg**	<2.00mg/kg	ICP/MS
Lead	< 0.50mg/kg	15ppb	ICP/MS
Mercury	< 0.50mg/kg	<0.50mg/kg	ICP/MS
Zinc	< 3.0 mg/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</u>	0.42-0.62 g/ml or cc	
<u>Moisture</u>	7.0% max	A.D.O.G.A.
<u>Granulation/Mesh</u>		
% on US #35	0% max	A.D.O.G.A.
% on US #45	0%min-1% max	A.D.O.G.A.
% on US # 80	10% min-15% max	A.D.O.G.A.
% thru US #100	40% min-50% max	A.D.O.G.A.

Microbiological

Total plate Count	<100,000 cfu/g (Same as USP method)	AOAC 966.23
Yeast and Mold	<300 /g	FDA-BAM 7 th ed.
Coliforms	<40 /g	AOAC 966.23
E.Coli	negative	AOAC 966.23
Pseudomonas	negative	AOAC /BAM
Salmonella	negative	AOAC /BAM
Staph Aureus	negative	AOAC /BAM

Actives Testing : Each batch is tested for **& Allicin potential guaranteed.**

*All other actives results are by input, & calculated as a courtesy(not guaranteed)

Ingredients: 100% garlic, no chemicals or additives ,No ETO Treatment, & No Irradiation.

Pesticides & H/M are tested per crop

Storage Conditions & shelf life:

Store in a cool, dry place, do not freeze. Shelf life is 2yrs.