




## Specification Sheet - Revised 10/01/2009

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<b>PRODUCT:</b> New-Gar® deodorized 10000 Allicin powder garlic 		
<b>PRODUCT CODE No.:</b> NG10000P		<b>Technical Administrator:</b> Yang Xian
<b>PLANT SPECIES:</b> <i>Allium Sativum</i>		<b>Yang Xian</b>
<b>Part used:</b> Bulb		<b>Complies with all current USP/NF</b>
<b>SOURCE/partner:</b> Harmoni Zhengzhou International, Henan, China		<b>HARVEST TIME:</b> Sept/Oct

Item	Specification	Method of Analysis
<b>Appearance:</b>	White to light tan powder	Visual
<b>Identity :</b>	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 *	22,000 ppm	“
Gamma-glutamylcysteines *	8,000 ppm	“
Total Thiosulfates *	10,000 ppm	“
Total Sulfur	VARIABLES	AOAC 990.28
<u>Pesticide Evaluation</u>		
<b>Organophosphorus Insecticides</b>		GC-MS, USP31, NF26
Diechlorvos	ND	
Fonofos	“	
Diazanon		
Parathion-methyl		
Chlorpyrifos-mythyl	“	
Pirimiphos-mythyl		
Malathion		
Parathion		
Chlorpyrifos	“	
Methidathion		
Ethion		
Carbophenothion		
Azinphos-methyl		
Phosalone		
<b>Organochlorine &amp; Pyrethroid Insecticides</b>	ND	GC-MS, USP31, NF26
<i>alfa</i> -Hexachlorocyclohexane	“	
Hexachlorobenzene		
<i>bata</i> -Hexachlorocyclohexane		
Lindane		
<i>gamma</i> -Hexachlorocyclohexan		
Heptachlor		
Aldrin		
Heptachlor epoxide	ND	



**Specification sheet**

<b>PRODUCT: Deodorized New-Gar @10000 ppm allicin powder Garlic (NG1000P)</b>		
	<b>Specification</b>	<b>Method of Analysis</b>

**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		

**Heavy metals**

	<5mg/kg	USP method 231
Arsenic	<0.50mg/kg	
Cadmium	<0.50mg/kg	
Copper	<0.50mg/kg	
Lead	<0.50mg/kg	
Mercury	<0.50mg/kg	
Zinc	<0.50mg/kg	

**Bulk Density**

	0.6-0.80 g/ml or cc	
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**Moisture**

	7.0% max (although we aim for <6% )	A.D.O.G.A.
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**Granulation/Mesh**

% 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	<1000 /g	FDA-BAM 7 <sup>th</sup> 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, \*all other actives results are by input  
 Ingredients: 100% garlic, no chemicals or additives, ETO Treatment, & No Irradiation.

**pesticides & H/M are tested at US labs twice/yr : early & late crop**

**Storage Conditions & shelf life:**

Store in a cool, dry place, do not freeze. Garlic has a 2 yr shelf life in proper storage (15-25°C)