



Specification Sheet - Revised 10/01/2009

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PRODUCT: New-Gar® deodorized 5000 Allicin powder garlic ①	
PRODUCT CODE No.: NG5000P	Technical Administrator: Yang Xian
PLANT SPECIES: <i>Allium Sativum</i>	Yang Xian
Part used: Bulb	Complies with all current USP/NF
SOURCE/partner: Harmoni Zhengzhou International, Henan, China	HARVEST TIME: Sept/Oct

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	Min. 5,000 ppm	C-18 HPLC
Alliin	Min 11,200 ppm	C-18 HPLC
Total Thiosulfinates	Min 5,000 ppm	C-18 HPLC
Gamma-Glutamylcysteines	Min 4,000 ppm	C-18 HPLC
Total Sulfur	VARIES	AOAC 990.28

Pesticide Evaluation

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 Insecticides	ND	GC-MS, USP31, NF26
<i>alfar</i> -Hexachlorocyclohexane	“	
Hexachlorobenzene		
<i>bata</i> -Hexachlorocyclohexane		
Lindane		
<i>gamma</i> -Hexachlorocyclohexan		
Heptachlor		
Aldrin		
Heptachlor epoxide	ND	

Specification sheet

PRODUCT: Deodorized New-Gar @5000 ppm allicin powder garlic (NG5000P)		
Item	Specification	Method of Analysis

<u>Pesticide Evaluation</u>	<u>Specification</u>	<u>Method of Analysis</u>
<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>	<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	
<u>Bulk Density</u>	0.42-0.62 g/ml	
<u>Moisture</u>	7.0% max (although we aim for <6%)	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.
<u>Microbiological</u>		
Total plate Count	<100,000 cfu/g (Same as USP method)	AOAC 966.23
Yeast and Mold	<1,000 /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, *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)