



Specification Sheet

Revised 01/02/08

PRODUCT: New-Gar® deodorized 12000 Allicin powder garlic (he new & improved Nutra-Gar) PRODUCT CODE No.: NG12000P Technical Administrator: Yang Xian PLANT SPECIES: <i>Allium Sativum</i> <u>Yang Xian</u> Part used: Bulb Complies with all current USP/NF SOURCE: 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 Potential	Min. 12,000 ppm	C-18 HPLC
Alliin *	26,400 ppm	“
Gamma-glutamylcysteines *	9,600 ppm	“
Total Thiosulfinates *	12,000 ppm	“
Total Sulfur	VARIES	AOAC 990.28

Pesticide Evaluation

Organophosphorus Insecticides		GC-MS, USP 27, 22<561>
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, USP27, 22<561>
<i>alfar</i> -Hexachlorocyclohexane	“	
Hexachlorobenzene		
<i>bata</i> -Hexachlorocyclohexane		
Lindane		
<i>gamma</i> -Hexachlorocyclohexan		
Heptachlor		
Aldrin		
Heptachlor epoxide	ND	

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	<u>Specification</u>	<u>Method of Analysis</u>
<u>Pesticide Evaluation</u>		
<i>o' p'</i> -DDE	ND	GC_USP27NF22
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>	0.6-0.80 g/ml or cc	
<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	1% max	A.D.O.G.A.
% on US # 80	15% max	A.D.O.G.A.
% thru US #100	50% max	A.D.O.G.A.
<u>Microbiological</u>		
Total plate Count	<10,000 cfu/g (Same as USP method)	AOAC 966.23
Yeast and Mold	<100 /g	FDA-BAM 7 th ed.
Coliforms	<20 /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 & NO ETO Treatment

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. Shelf life is 2-3 yrs depending on the value of allicin potential
 & based on a stability study.