Specification Sheet - *Revised 09/01/2008*

PRODUCT:New-Gar® deodorized 12000 Allicin powder garlic Ⓤ
PRODUCT CODE No.: NG12000P **Technical Administrator: Yang Xian**
PLANT SPECIES: ***Allium Sativum*** **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**
Active Ingredients	**Specification**	**Method of Analysis**
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,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**
***alfar*-Hexachlorocyclohexane**	**“**	
Hexachlorobenzene		
***bata*-Haxachlorocyclohexane**		
Lindane		
***garma*-Haxachlorocyclohexan**		
Heptachlor		
Aldrin		
Heptachlor epoxide	**ND**	

PRODUCT: Deodorized New-Gar ®12000 ppm allicin powder Garlic (NG12000P)		
	Specification	**Method of Analysis**
Pesticide Evaluation		
o′p′-DDE	ND	GC_USP31NF26
alfar-Endosulfan		
Dieldrin		
p′p′-DDE		
Endrin		
Endosulfan		
o′p′-DDT		
Carbophenothion		
Organochlorine & Pyrethroid Insecticides	"	
p′p′-DDT		
Permethrin		
Trans-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	
Moisture	7.0% max (although we aim for <6%)	A.D.O.G.A..
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	<50,000 cfu/g (Same as USP method)	AOAC 966.23
Yeast and Mold	<300 /g	FDA-BAM 7th ed.
Coliforms	<40 /g	AOAC 966.23
E.Coli	negative	AOAC 966.23
Pseudomones	negative	AOAC /BAM
Salmonella	negative	AOAC /BAM
Staph Aureus	negative	AOAC /BAM

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

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