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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