



# Specification Sheet

Revised 09/26/2016

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<b>PRODUCT:</b> New-Gar® Standardized & Deodorized 8000 Allicin garlic powder ①	<b>TECHNICAL DIRECTOR:</b> Mary Gabriel
<b>PRODUCT CODE No.:</b> NG8000P	<i>Mary Gabriel</i>
<b>PLANT SPECIES:</b> <i>Allium sativum</i>	<b>Complies with all current USP/NF</b>
<b>PART USED:</b> Bulb	
<b>SOURCE/PARTNER:</b> Zhengzhou Harmoni spice CO. Ltd, Zhengzhou City, Henan, China	
<b>HARVEST TIME:</b> June/July	

Item	Specification	Method of Analysis
<b>Appearance:</b>	White to light tan powder	Visual
<b>Identity :</b>	spectrum must match garlic powder	HPTLC IR reference USP36/NF31
<b>Taste /Odor :</b>	Characteristic w/slight reduction	
<b>Active Ingredients</b>	<b>Specification</b>	<b>Method of Analysis</b>
Allicin potential	Min. 8,000 ppm	C-18 HPLC/ALC118A
Alliin	Min 18,000 ppm	C-18 HPLC/ALC118A
Total Thiosulfinates	Min 8,000 ppm	C-18 HPLC/ALC118A
Gamma-Glutamylcysteines	Min 18,000 ppm	C-18 HPLC/ALC118A
Total Sulfur	VARIES	AOAC 990.28/ICP
<b>Pesticides evaluation:</b> ( For full list & actual values, go to our website for a full report on new crop)		
<b>Organophosphorus Insecticides</b>		<b>GC-MS,USP36,NF31</b>
Diechlorvos	ND	Ch. 561
Fonofos	“	
Diazanon		
Parathion-methyl		
Chlorpyrifos-mythyl	“	
Pirimiphos-mythyl		
Malathion		
Parathion		
Chlorpyrifos	«	
Methidathion		
Ethion		
Carbophenothion		
Azinphos-methyl		
Phosalone		
<b>Organochlorine &amp; Pyrethroid</b>	<b>ND</b>	<b>GC-MS,USP36,NF31</b>
<b>Insecticides</b>		<b>Ch. 561</b>
<i>alfar</i> -Hexachlorocyclohexane	“	
Hexachlorobenzene		
<i>bata</i> -Hexachlorocyclohexane		
Lindane		
<i>gamma</i> -Hexachlorocyclohexan		
Heptachlor		
Aldrin		
Heptachlor epoxide	ND	
<i>o' p'</i> -DDE	ND	GC-MS USP36,NF31
<i>alfar</i> -Endosulfan		
Dieldrin		
<i>p' p'</i> -DDE		
Endrin		



<b>PRODUCT: New-Gar® Standardized &amp; Deodorized 8000Allicin garlic powder (U), NG8000P</b>		
<b>Item</b>	<b>Specification</b>	<b>Method of Analysis</b>

<u>Pesticide Evaluation</u>	<u>Specification</u>	<u>Method of Analysis</u>
Endosulfan	ND	
o' p' -DDT		
Carbophenothion		
Organochlorine & Pyrethroid Insecticides	“	
p' p' -DDT		
Permethrin		
Trans-Permethrin		
Cypermethrin		
Fenvalerate		
Deltamethrin		
Aflatoxins B1 & B2	ND	EN14123
Aflatoxins G1 & G2	«	IAC,HPLC-FLD
<u>Heavy metals / Must Meet USP Limits</u>	<10mg/kg	<u>Actual Results of crop</u> USP method 231
Arsenic	< 0.50mg/kg	<0.20mg/kg ICP/MS
Cadmium	< 0.50mg/kg	<0.50mg/kg AICP05A
Lead	< 0.20mg/kg	<0.20mg/kg ICP/MS
Mercury	< 0.50mg/kg	<0.50mg/kg ICP/MS
<u>Bulk Density (untapped)</u>	0.42-0.62 g/ml or cc	USP36,NF31
<u>Moisture</u>	7.0% max (although we aim for <6% )	USP36,NF31.
<u>Granulation/Mesh</u>		
% on US #35	0% max	USP36,NF31
% on US #45	0%min-1% max	USP36,NF31
% on US # 80	10% min-15% max	USP36,NF31
% on US #100	40% min-50% max	USP36,NF31
<u>Microbiological</u>		
Total plate Count	<75,000 cfu/g	(Same as USP<2021,2022>)AOAC 966.23
Yeast and Mold	<100 cfu/g	FDA-BAM 7 <sup>th</sup> ed.
Coliforms	<20 cfu/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 & guaranteed.

\*All other actives results are by input, & calculated as a courtesy.

**Ingredients:** 100% garlic, Non-GMO, no chemicals or additives ,No ETO Treatment, & No Irradiation.

**Pesticides & H/M are tested per crop**

**Storage Conditions & shelf life:** Store in a cool, dry place, do not freeze. Shelf life is 2yrs.