



# Specification Sheet

Revised: 11/15/2012

<b>PRODUCT:</b> New-Unio® Standardized Nutraceutical Gran Onions <b>PRODUCT CODE #:</b> NU01G		
Technical Administrator: Sami Zoorob		
<b>PLANT SPECIES:</b> <i>Allium Cepa</i>	<i>Sami Zoorob</i>	
<b>Part used:</b> Bulb	Complies with all current USP/NF	
<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 granules	Visual
<b>Identity</b>	: spectrum must match onion granules IR reference	HP-TLC USP34/NF29
<b>Active Ingredients</b>	<b>Specification</b>	<b>Method of Analysis</b>
Iso-Alliin	TBD	HPLC, method#1451
Benfotiamine	TBD	
<b>Pesticide Evaluation</b>		
<b>Organophosphorus Insecticides</b>		
Diechlorvos	ND	GC-MS, USP31, NF26
Fonofos	“	
Diazanon		
Parathion-methyl		
Chlorpyrifos-mythyl	“	
Pirimiphos-mythyl		
Malathion		
Parathion		
Chlorpyrifos	«	
Methidathion		
Ethion		
Carbophenothion		
Azinphos-methyl		
Phosalone		
<b>Organochlorine &amp; Pyrethroid Insecticides</b>		
<i>alfar</i> -Hexachlorocyclohexane	“	
Hexachlorobenzene		
<i>bata</i> -Hexachlorocyclohexane		
Lindane		
<i>gamma</i> -Hexachlorocyclohexan		
Heptachlor		
Aldrin		
Heptachlor epoxide	ND	



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	Specification	Method of Analysis
<b><u>Pesticide Evaluation</u></b>		
<i>o' p'</i> -DDE	ND	GC-MS,USP31,NF26
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		
Trans-Permethrin		
Cypermethrin		
Fenvalerate		
Deltamathrin		
<b>Heavy metals</b> / Must Meet USP Limits <10mg/kg	Actual Results of crop 2012	USP method 231
Arsenic	< 0.50mg/kg	28ppb ICP/MS
Cadmium	< 0.50mg/kg	<0.50mg/kg AICP05A
Copper	< 3.00mg/kg**	<2.00mg/kg ICP/MS
Lead	< 0.20mg/kg	15ppb ICP/MS
Mercury	< 0.50mg/kg	<0.50mg/kg ICP/MS
Zinc	< 3.00mg/kg**	<2.00mg/kg ICP/MS
** Specifications on zinc & copper were set based on tests results of several samples of new crop.		
No FDA and/or USP limits are posted or determined. Specifications are only listed for information purposes & may exceed limits as onion is a natural product & nothing is added in its process.		
<b><u>Bulk Density</u></b>	0.6-0.80 g/ml or cc	
<b><u>Moisture</u></b>	7.0% max	A.D.O.G.A..
<b><u>Granulation</u></b>		
% on US #20	Trace	A.D.O.G.A.
% on US #60	40% min -85% max	A.D.O.G.A.
% thru US #100	5% min-25% max	A.D.O.G.A.
<b><u>Microbiological* guaranteed at time of delivery only</u></b>		
Total plate Count	<75,000 cfu/g (Same as USP method)	AOAC 966.23
Yeast and Mold	<100 /g	FDA-BAM 7 <sup>th</sup> 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 the claimed actives, 100% onions: red, shallots, purple & white, no chemicals or additives, NON-GMO, NO ETO Treatment, and/or irradiation.

**Storage Conditions & shelf life:**

Store in a cool, dry place, do not freeze. Shelf life is 2 yrs.