1. Raw Materials

Fresh Garlic Inspection

Cracking – Remove root plate

De-skin

Water Wash

Slicing

Draining

Water from local government: tested every half year by 3rd party lab.

2. Dehydration

Drying

Dehydration CCP2

Belt dry

Flakes - 6% Moisture

Magnet: cleaned every 4hr

QC Lab Testing: moisture & micro

3. Sorting

Hand sorting Flakes

Magnet: cleaned every 4hr

Weighing & Packing

QC Lab Testing: moisture

Semi-product storage for Garlic Flakes; Re-dry if necessary: back to step 2

4. Milling

Milling Machine

Sieves Screen

Magnet: cleaned every 4hr

Final sifter

QC Lab Testing

5. Packing

Metal Detector CCP3

Packing

Pack in Fiber drums & labeling

QC Lab Testing: moisture & micro

F.P. Warehouse

Fe ≥ ø0.8 mm
Non-Fe ≥ ø1.0mm
Sus ≥ ø1.0 mm
Note: CCP1 --- Fresh garlic quality inspection: Pesticide & Heavy metal
CCP2 --- Temperature control during dehydration: 65-75°C
CCP3 --- Metal detector calibration: every 2 hours
# HACCP Plan for Dehydrated Garlic Product

**Company:** Zhengzhou Harmoni Plant  
**Storage:** Room temperature, clean, cool & dry  
**Update on:** 5/10/2013

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| CCP1 | Biological-B  
Chemical-C  
Physical-P | C-Pesticide Residue; Heavy metal  
Within FDA/EPA limitation for pesticide residues and heavy metal | Pesticide usage record for field; Prohibit using banned pesticide.  
Pesticide, heavy metal tested by 3rd party lab.  
Every 300 MT of raw material | QA Inspector-Field | Any banned pesticide found or exceed standard, whole truck product will be rejected. | Garlic Bulb Inspection Record; COA of Pesticide; Corrective Action | Inspect document daily. |
| CCP2 | B- Micro level  
P- Color | TPC within spec; Within Color standard.  
Drying temperature; Drying time and RPM speed of dryer | Checking temperature; compare color to the standard.  
Every 2 hours | QA Inspector - Dehydration | Adjusting temperature to be lower(65-75°C) if moisture is too low or color turn darker. The dryer rotate speed should be between 300-900 rpm/min. | Drying temperature record; CCP2 monitoring record. | Sampling from each lot and tested TPC, moisture and color; Check records every day. |
| CCP5 | P- Metals | Fe≥0.6 mm  
Su≥1.0mm  
NFe≥1.0 mm | Metal materials exceed critical limits  
Metal detector; Magnets | Every 2 hours | QC technician | Stored unqualified product separately; Analyze the source of foreign material to prevent happening again | Metal Detector Record; Unqualified product safety report | Operators correlate metal detector and magnets every 2 hours. |