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Product Information

Product Name	Huang Qi
Botanical Name	<i>Astragalus membranaceus</i> (Fisch.) Bge. var. <i>mongholicus</i> (Bge.) Hsiao
English Name	Astragalus root
Plant Part	Root
Growing Region	Gansu, China
Product Nature	Full-Spectrum Extract
Extract Ratio	20:3

Test Reference: Chinese Pharmacopoeia and Tianjiang Pharmaceutical Product Specification

Item	Specification
Organoleptic	
Appearance	Granules
Color	Light yellow
Odor	Faint
Taste	Slightly sweet, slightly bitter
Multiple Constituent Testing	
HPLC Chromatogram	4 characteristic peaks including: Calycosin-7-glucoside; Calycosin;
Calycosin-7-glucoside content	≥0.25 mg/g
Astragaloside IV content	≥1.20 mg/g
Identification	Positive by TLC
Drying Method	Spray Dry
Physical Characteristics	
Granule Size (14-40 Mesh)	≤15% (through 5# sieve or not through 1# sieve)
Moisture Content	≤8.0% (w/w)
Bulk Density	0.30~0.60 g/mL
Solubility in Water	Should totally dissolve with no foreign matter
Pesticide Residues	
Total BHC	≤ 0.2 mg/kg
Total DDT	≤ 0.2 mg/kg
PCNB	≤ 0.1 mg/kg
Heavy Metals	

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Laboratory**

Total Heavy Metals	≤10 ppm
Arsenic	<2 ppm
Lead	<5 ppm
Mercury	<0.2 ppm
Cadmium	<0.3 ppm
Microbiological Tests	
Total Plate Count	<1000 cfu/g
Total Yeast & Mold	<100 cfu/g
Coliforms	Absent/1g
Salmonella	Absent/10g
Staphylococcus aureus	Absent /1g
Aflatoxins	
Sum of Aflatoxins	<20 ppb

We do hereby certify that this product is non-GMO, is not gamma irradiated, contains no melamine, silica gel, milk, or milk derivatives and conforms to EU regulations EC 1829/2003 and 1830/2003.

General Information

Confirmation

Packaging	
Package	Airtight Foil Bag
Labeling Requirements	
Tianjiang Pharmaceutical	Yes
Address/Contact Information	Yes
Product Name	Yes
Product Code	Yes
Lot Identity Code	Yes
Gross Weight	No
Net Weight	Yes
“For Further Processing”	Yes
Storage Requirements	
Temperature	Room temperature below 30°C
Humidity	Store in tightly sealed containers away from direct light and moisture
Light	N/A
Other	N/A
Other Information	
Compendia approved	Abides to USP Protocol
Certifications / Compliance	US FDA Registered Facility, Compliant to China and EU Food and Drug Regulations, China GMP certified, Compliant to US cGMP, CNAS Lab Certified, CQC certified by IQNet,

	IAF and CNAS.
International ISO Standards	ISO 9001:2015/ISO 14001:2015/ISO 10012:2003/ISO/IEC17025
Natural / Organic	Natural
Vegan	Complies, Not Certified
Other Ingredients	
Flavors (Natural or Synthetic)	Natural (None Added)
Colors (Natural or Synthetic)	Natural (None Added)
Sweeteners (If yes, residue level)	Natural (None Added)
Salt (If yes, residue level)	Natural (None Added)
Antioxidants / Preservatives (If yes, amount)	Natural (None Added)
Solvents	None
Processing Aids (Silicon Dioxide, Starch, etc.)	None

Multiple Constituents Testing

Astragalus root (*Astragalus membranaceus* (Fisch.) Bge. var. *mongholicus* (Bge.) Hsiao) Granules
Multiple Constituents Testing
[Characteristic spectrum] Determined by HPLC
(General Rule 0512, Chinese Pharmacopoeia 2015 Edition)

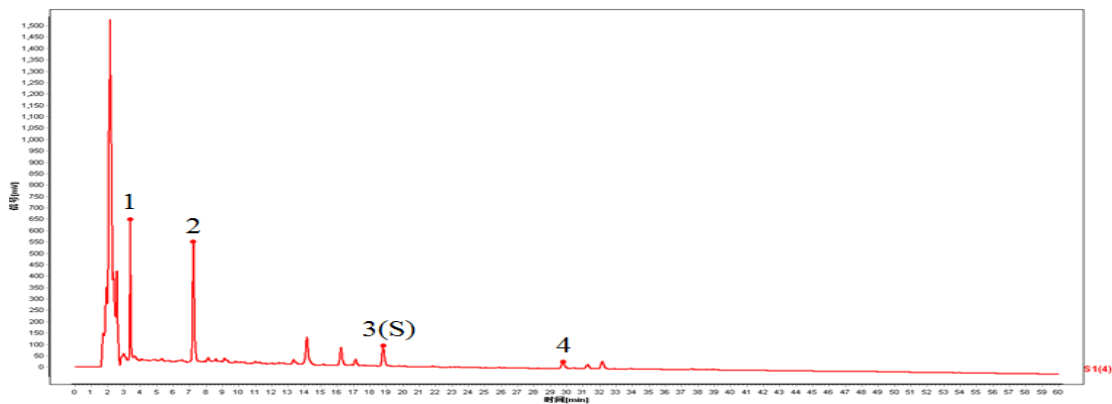


Fig. 1: A reference fingerprint chromatogram of Astragalus root

Peak 2: Calycosin-7-glucoside; Peak 3(S): Calycosin

Table 1 The relative retention time and acceptable ranges of the 4 characteristic peaks of Astragalus root extract

Peak No.	Relative retention time	Acceptable Range
1	0.48 (vs peak 3)	± 0.10
2 (marker 1, Calycosin-7-glucoside)	1.00	-
3 (marker 2, Calycosin)	1.00	-
4	0.48 (vs peak 3)	± 0.10