

PANAX NOTOGINSENG



This product is the dried root and rhizome of *Panax notoginseng* (Burk.) F. H. Chen of the Araliaceae family. It is dug up in autumn before the flowers bloom, washed, and the main root, lateral root and rhizome are separated and dried. The lateral root is commonly known as "tendon strip" and the rhizome is commonly known as "cut mouth".

【 PROPERTIES 】

The taproot is conical or cylindrical, 1 to 6 cm long and 1 to 4 cm in diameter. The surface is gray-brown or gray-yellow, with intermittent longitudinal wrinkles and root scars. There is a stem scar at the top and tumor-like protrusions around it. It is heavy and solid, with a gray-green, yellow-green or gray-white cross section, and the wood is slightly radially arranged. The smell is slight and the taste is bitter and sweet. The tendons are cylindrical or conical, 2 to 6 cm long, with a diameter of about 0.8 cm at the upper end and about 0.3 cm at the lower end. The cut is irregularly wrinkled, blocky or strip-shaped, with several obvious stem scars and ring marks on the surface. The center of the cross section is gray-green or white, and the edge is dark green or gray.

【 IDENTIFICATION 】

(1) The powder of this product is gray-yellow. There are many starch granules, single granules are round, semicircular or rounded polygonal, with a diameter of 4 to 30 μm ; compound granules are composed of 2 to 10 granules. Resin duct fragments contain yellow secretions. The diameter of the ladder-shaped duct, the reticular duct and the spiral duct is 15 to 55 μm . Calcium oxalate cluster crystals are rare and preferably have a diameter of 50 to 80 μm .

(2) Take 0.5 g of the powder of this product, add 5 drops of water, stir well, then add 5 ml of water-saturated n-butanol, seal, shake for 10 minutes, leave for 2 hours, centrifuge, take the supernatant, add 3 times the amount of water saturated with n-butanol, shake well, leave to separate (centrifuge if necessary), take the n-butanol layer, evaporate to dryness, add 1 ml of methanol to the residue to dissolve, and use it as the test solution. Separately take ginsenoside Rb1 reference substance, ginsenoside R1 reference substance, ginsenoside Rb1 reference substance and Panax notoginseng saponin R1 reference substance, add methanol to make a mixed solution containing 0.5 mg of each per 1 h, as the reference solution. According to the thin layer chromatography method (General Rule 0502), take 1 tsp of each of the above two solutions and spot them on the same silica gel G thin layer plate. Use chloroform-ethyl acetate-methanol-water (15:40:22:10) as the developing agent. Develop, take out, dry, spray with sulfuric acid solution (1-10), and heat at 105°C until the spots are clearly colored. In the chromatogram of the test product, spots of the same color appear at the corresponding positions of the

【 INSPECTION 】

Water content shall not exceed 14.0% (General Rule 0832 Method 2).

Total ash content shall not exceed 6.0% (General Rule 2302).

Acid insoluble ash content shall not exceed 3.0% (General Rule 2302). Heavy metals and harmful elements are determined according to the lead, cadmium, arsenic, mercury and copper determination method (General Rule 2321 atomic absorption spectrophotometry or inductively coupled plasma mass spectrometry). Lead shall not exceed 5mg/kg; cadmium shall not exceed 1mg/kg; arsenic shall not exceed 2mg/kg; mercury shall not exceed 0.2mg/kg; copper shall not exceed 20mg/kg.

【 EXTRACT 】

Determine according to the hot leaching method under the alcohol-soluble extract determination method (General Rule 2201), using methanol as the solvent, and shall not be less than 16.0%.

【 CONTENT DETERMINATION 】

Determine according to high performance liquid chromatography (General Rule 0512).

Chromatographic conditions and system suitability test Octadecylsilane bonded silica gel is used as filler; acetonitrile is used as mobile phase A, water is used as mobile phase B, and gradient elution is performed according to the provisions in the following table; the detection wavelength is 203nm. The number of theoretical plates calculated based on the R1 peak of Panax notoginseng should not be less than 4000.

TIME (MIN)	MOBILE PHASE A (%)	MOBILE PHASE B (%)
0~12	19	81
12~60	19→36	81→64

Preparation of reference solution: Accurately weigh appropriate amounts of ginsenoside Rg1 reference, ginsenoside Rb1 reference and notoginseng saponin R1 reference, add methanol to make a mixed solution containing ginsenoside Rg1 0.4mg, ginsenoside Rb1 0.4mg and notoginseng saponin R1 0.1mg per 1ml. Preparation of test solution: Take 0.6g of this product powder (passed through No. 4 sieve), accurately weigh, accurately add 50ml of methanol, weigh the weight, leave overnight, keep it in a 80°C water bath and keep it slightly boiling for 2 hours, cool, weigh again, make up the lost weight with methanol, shake well, filter, and take the filtrate to obtain.

Determination method: Accurately aspirate 10 hours of reference solution and test solution respectively, inject them into liquid chromatograph, and determine, and obtain.

Calculated on the basis of dry product, the total amount of ginsenoside Rg1 (C42 H72O14), ginsenoside Rb1 (C54 H92 O23) and notoginseng saponin Ri (C47 H80 O8) contained in this product shall not be less than 5.0%.

【 PROCESSING 】

Panax notoginseng powder Take Panax notoginseng, wash, dry and grind into fine powder.

【 PROPERTIES 】

This product is grayish yellow powder. Slight smell, bitter taste with sweet aftertaste.

**【 IDENTIFICATION 】 【 INSPECTION 】
【 EXTRACT 】 【 CONTENT DETERMINATION 】**

Same as medicinal materials.

【 PROPERTIES AND MERIDIANS 】

Sweet, slightly bitter, warm. Enters the liver and stomach meridians.

【 FUNCTIONS AND INDICATIONS 】

Disperse blood stasis and stop bleeding, reduce swelling and relieve pain. Used for hemoptysis, vomiting blood, fine blood, blood in stool, metrorrhagia, traumatic bleeding, chest and abdominal stabbing pain, swelling and pain from falls.

【 USAGE AND DOSAGE 】

3~9g; grind into powder and swallow, 1~3g at a time.
Appropriate amount for external use.

【 NOTE 】

Use with caution in pregnant women.

【 STORAGE 】

Place in a cool and dry place to prevent moth.

◆ Phone / WeChat / WhatsApp: +8618633640012

◆ Mail: 277605659@qq.com ◆ Website: www.cn-qihuikang.com