

ANGELICA DAHURICA



This product is the dried root of *Angelica dahurica* (Fisch, ex Hoffm.) Benth. et Hook f or *Angelica dahurica* (Fisch ex Hoffm.) Benth et Hook f var *formosana* (Boiss) Shan et Yuan of the Umbelliferae family. It is dug up when the leaves turn yellow in summer and autumn, the fibrous roots and mud are removed, and it is dried in the sun or at a low temperature.

【 CHARACTER 】

This product is in the shape of a long cone, 10~25cm long and 15~25cm in diameter. The surface is grey-brown or yellow-brown, the root head is bluntly quadrangular or nearly round, with Longitudinal wrinkles, root scars and lenticel-like transverse protrusions are sometimes arranged in four longitudinal rows. There is a depressed stem mark at the top. Solid texture, white or off-white cross-section, pink or cambium layer Ring brown, nearly square or nearly round, with many brown oil spots scattered on the skin. The aroma is aromatic, the taste is pungent and slightly bitter.

【 IDENTIFICATION 】

(1) The powder of this product is yellow-white. There are many starch granules, single grains are spherical, polygonal, oval or helmet-shaped, with a diameter of 3 to 25 μm , and are called navel-shaped, crack-shaped, cross-shaped, trident-shaped, star-shaped or herringbone-shaped; complex granules are mostly composed of 2 ~12 pieces. The diameter of reticulated conduit and threaded conduit is 10~85 μm . Cork cells are polygonal or quasi-rectangular, light yellowish brown. Most of the oil pipes are broken and contain light yellowish-brown secretions.

(2) Take 0.5g of this product powder, add 10ml of ethyl acetate, soak for 1 hour, shake frequently, filter, evaporate the filtrate to dryness, add 1ml of ethyl acetate to the residue to dissolve, and use it as the test solution. Take another 0.5g of *Angelica dahurica* as the reference medicinal material and prepare the reference medicinal material solution in the same way. Then take imperatorin reference substance and isoimperatorin reference substance, add ethyl acetate to make each 1ml of mixed solutions each containing 1mg was used as the reference solution. According to the thin layer chromatography (General Chapter 0502) test, draw 4R of each of the above three solutions, and point them on the same silicon On the glue G thin layer plate, use petroleum solution (30~60°C)-ethyl alcohol (3:2) as the developing agent, develop it below 25°C, take it out, dry it, and inspect it under an ultraviolet light (365nm). In the chromatogram of the test product, fluorescent spots of the same color appear at positions corresponding to the chromatogram of the control medicinal material and the reference substance. Above, fluorescent spots of the same color are displayed.

【 EXAMINE 】

Moisture content must not exceed 140% (General Rule 0832 Fourth Method). The total ash content shall not exceed 60% (General Rule 2302). Heavy metals and harmful elements are measured according to the determination method of lead, cadmium, arsenic, mercury and copper (General Chapter 2321 Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Mass Spectrometry). 9 Lead shall not exceed 5 mg/kg; cadmium shall not exceed 1 mg/kg; arsenic shall not exceed 2mg/kg; mercury shall not exceed 0.2mg/kg; copper shall not exceed 20mg/kg.

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【 EXTRACT 】

According to the hot soaking method under the determination method of alcohol-soluble leachables (General Chapter 2201), use dilute ethanol as the solvent, not less than 15.0%.

【 CONTENT DETERMINATION 】

Determine according to high performance liquid chromatography (General Chapter 0512). Chromatographic conditions and system suitability test using octadecylsilane bonded silica gel as the filler; use methanol-water (55:45) as the mobile phase; the detection wavelength is 300nm and the number of theoretical plates should not be less than 3000 based on the imperatorin peak. Preparation of the reference substance solution: Take an appropriate amount of imperatorin reference substance, weigh it accurately, add methanol to make a solution containing 10% of the solution per 1ml, and you have it. Preparation of the test solution: Take about 0.4g of this product powder (passed through No. 3 sieve), weigh it accurately, put it in a 50ml measuring bottle, add 45ml of methanol, ultrasonic treatment (power 300W, frequency 50kHz) for 1 hour, take it out and put it Cool, add methanol to the mark, shake well, filter, and take the remaining filtrate to obtain.

The measurement method is to accurately absorb 200% each of the reference solution and the test solution, inject them into the liquid chromatograph, and measure. Calculated as dry product, this product contains imperatorin (C₁₆H₁₄) not less than 0.080%.

DECOCTION PIECES

【 PROCESSED 】

Remove impurities, separate into large and small pieces, soak slightly, moisten thoroughly, cut into thick slices, and dry.

【 CHARACTER 】

This product is in the form of a round, thick piece. The outer skin is grey-brown or yellow-brown. The cut surface is white or off-white, powdery, the cambium ring is brown, nearly square or nearly round, and there are many brown oil spots scattered on the skin. The aroma is fragrant, the taste is pungent and slightly bitter.

【 EXAMINE 】

The total ash content is the same as that of medicinal materials and shall not exceed 5.0%.

【 IDENTIFICATION 】 【 INSPECTION 】 (MOISTURE) 【 LEACHATE 】 【 CONTENT DETERMINATION 】

Same medicinal materials.

【 NATURE, FLAVOR AND MERIDIAN TROPISM 】

Pungent, warm. Returns to the stomach, large intestine, and lung meridians.

【 FUNCTIONS AND INDICATIONS 】

It can relieve the surface and dispel cold, dispel wind and relieve pain, clear up the nose orifices, remove dampness and stop vaginal discharge, reduce swelling and expel pus. It is used for colds and headaches, eyebrow bone pain, nasal congestion and runny nose, nasal rails, rhinophyma, toothache, vaginal discharge, sores, swelling and pain.

【 USAGE AND DOSAGE 】

3~10g.

【 STORAGE 】

Store in a cool, dry place to prevent moth.