

ACHYRANTHES BIDENTATA



This product is the dried root of *Achyrantes bidentata* Bl. of the *Achyrantes* family. It is dug up in winter when the stems and leaves wither, the fibrous roots and mud are removed, and the roots are bundled into small bundles. After the bundles are dried and wrinkled, the tops are cut evenly and dried.

【 PROPERTIES 】

Notopterygium wilfordii is a cylindrical, slightly curved rhizome, 4 to 13 cm long, 0.6 to 2.5 cm in diameter, with a stem scar at the top. The surface is brown to dark brown, and the outer skin is yellow where it falls off. The internodes are shortened, forming a tightly raised ring, resembling a silkworm, commonly known as "silkworm qiang"; the internodes are elongated, shaped like bamboo nodes, commonly known as "bamboo node qiang". There are many dot-like or tumor-like protruding root scars and brown broken scales on the nodes. It is light, brittle, easy to break, and has an uneven cross section with many cracks. The cortex is yellow-brown to dark brown, oily, with brown oil spots, the wood is yellow-white, the rays are obvious, and the pith is yellow to yellow-brown. It has a fragrant smell and tastes slightly bitter and spicy. Long-leaved *Notopterygium wilfordii* is a rhizome and root. The rhizome is cylindrical, with the remains of stems and leaf sheaths at the top, and the root is conical, with longitudinal wrinkles and lenticels; the surface is brown, with dense rings near the rhizome, 8 to 15 cm long, 1 to 3 cm in diameter, commonly known as "tiaoqiang". Some rhizomes are thick, irregularly nodular, with several stem bases at the top, and thin roots, commonly known as "big-headed qiang". The texture is brittle, easy to break, the cross section is slightly flat, the bark is light brown, and the wood is yellow-white. The smell is light.

【 IDENTIFICATION 】

Take 1g of the powder of this product, add 5ml of methanol, ultrasonically treat for 20 minutes, let it stand, and take the supernatant as the test solution. Take another purple flower peucedanum reference substance, add methanol to make a solution containing 0.5mg per 1ml as the reference solution. According to the thin layer chromatography method (General Rule 0502), 2 to 4 μ l of each of the above two solutions are taken and spotted on the same silica gel G thin layer plate prepared with 3% sodium acetate solution, and chloroform-methanol (8:2) is used as the developing agent. Develop, take out, dry, and inspect under ultraviolet light (365nm). In the chromatogram of the test sample, the same blue fluorescent spot appears at the corresponding position of the chromatogram of the reference sample.

【 EXTRACT 】

Determined by hot soaking method under the method for determination of alcohol-soluble extract (General Rule 2201), using ethanol as solvent, the content shall not be less than 15.0%.

◆ Phone / WeChat / WhatsApp: +8618633640012

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

【 EXAMINE 】

Moisture content must not exceed 15.0% (General Rule 0832 Second Method).

The total ash content shall not exceed 9.0% (General Rule 2302).

The residual amount of sulfur dioxide shall be measured according to the determination method of residual sulfur dioxide (General Chapter 2331) and shall not exceed 400mg/kg.

【 EXTRACT 】

According to the hot soak method under the determination method of alcohol-soluble leachables (General Chapter 2201), water-saturated n-butanol is used as the solvent, and it should not be less than 6.5%.

【 CONTENT DETERMINATION 】

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

The chromatographic conditions and system suitability test used octadecylsilane bonded silica gel as the filler; acetonitrile-water-formic acid (16:84:0.1) as the mobile phase; the detection wavelength was 250nm and the theoretical plate number was 0-ecdysone. Peak calculation should be no less than 4000. Preparation of the reference substance solution: Take an appropriate amount of /?-ecdysone reference substance, weigh it accurately, add methanol to make a solution containing 0.1mg per 1ml, and you can get it.

Preparation of test solution: Take about 1g of this product powder (passed through No. 3 sieve), weigh it accurately, place it in a stoppered Erlenmeyer flask, add 30ml of water-saturated n-butanol, seal the stopper, soak overnight, and ultrasonicate (power 300W, Frequency 40kHz) for 30 minutes, filter, wash the container and residue with 10 ml of methanol several times, combine the filtrate and washing liquid, evaporate to dryness, add methanol to the residue to dissolve, transfer to a 5 ml measuring flask, add methanol to the mark, shake well, that is have to. Determination method: Precisely draw 10μ each of the reference solution and the test solution, inject them into the liquid chromatograph, and measure. Calculated as a dry product, this product contains no less than 0.030% of 0-ecdysone (C27 H44O7).

DRINKING PIECES**【 PROCESSED 】**

Remove impurities from *Achyranthes bidentata*, wash, moisten thoroughly, remove residual reed heads, cut into sections, and dry.

【 CHARACTER 】

This product is in the form of a cylindrical segment. The outer skin is grayish-yellow or light brown, with fine longitudinal wrinkles and long transverse lenticels. It is hard and brittle, easy to break, and becomes soft when exposed to moisture. The cut surface is flat, light brown or brown, slightly keratinous and oily, the central vascular bundle xylem is larger, yellowish white, and there are many yellowish white dotted vascular bundles scattered on the periphery, arranged intermittently in 2 to 4 rounds. The smell is slight, the taste is slightly sweet and slightly bitter.

【 EXTRACT 】

For the same medicinal materials, it shall not be less than 5.0%.

【 IDENTIFICATION 】 【 INSPECTION 】 【 CONTENT DETERMINATION 】

Same medicinal materials.

Wine *Achyranthes* Take the clean *Achyranthes* segment and fry it dry according to the wine roasting method (General Rule 0213).

【 NATURE, FLAVOR AND MERIDIAN TROPISM 】

Bitter, sweet, sour, flat. Returns to the liver and kidney meridians.

【 FUNCTIONS AND INDICATIONS 】

Removes blood stasis and stimulates menstruation, nourishes liver and kidney, strengthens muscles and bones, diuresis and relieves stranguria, and induces blood to flow downward. It is used for amenorrhea, dysmenorrhea, soreness of waist and knees, weakness of muscles and bones, stranguria syndrome, edema, headache, dizziness, toothache, aphtha, hematemesis, and hematoma.

【 USAGE AND DOSAGE 】

5~12g.

【 NOTICE 】

Pregnant women should use with caution.

【 STORAGE 】

Store in a cool, dry place away from moisture.

