

GARDENIA



This product is the dried mature fruit of *Gardenia jasminoides* Ellis, a plant of the Rubiaceae family. The fruit is harvested from September to November when it is ripe and reddish yellow, the fruit stalks and impurities are removed, steamed until steaming or slightly blanched in boiling water, taken out, and dried.

【 PROPERTIES 】

This product is oblong or elliptical, 1.5-3.5cm long and 1-1.5cm in diameter. The surface is reddish yellow or brownish red, with 6 wing-like longitudinal ridges, often with a distinct longitudinal vein between the ridges, and with branches. The top has sepals, which are slightly pointed at the base and have residual fruit stalks. The pericarp is thin and brittle, slightly shiny; the inner surface is lighter in color, shiny, with 2-3 raised pseudosepta. There are many seeds, flat oval, gathered into a mass, dark red or reddish yellow, with dense small wart-like protrusions on the surface. The smell is faint, and the taste is slightly sour and bitter.

【 IDENTIFICATION 】

(1) The powder of this product is reddish brown. The stone cells in the inner pericarp are rectangular, sub-circular or sub-triangular, often arranged in an alternating manner or connected with fibers, with a diameter of 14-34 μ m, a length of about 75 μ m, and a wall thickness of 4-13 μ m. The cell cavity often contains prismatic calcium oxalate crystals. The fibers of the endocarp are slender, fusiform, about 10 μ m in diameter and up to 110 μ m in length, often arranged in staggered and oblique mosaics. The stone cells of the seed coat are yellow or light brown, long polygonal, rectangular or irregular in shape, 60~112 μ m in diameter and up to 230 μ m in length, with thick walls, very large pores, and brown-red cell cavities. The diameter of the calcium oxalate cluster crystals is 19~34 μ m.

(2) Take 1 g of the powder of this product, add 10 ml of 50% methanol, ultrasonically treat for 40 minutes, filter, and take the filtrate as the test solution. Take 1 g of the Gardenia control medicinal material and prepare the control medicinal material solution in the same way. Take the Gardenia control material again, add ethanol to prepare a solution containing 4 mg per 1 ml as the control solution. According to the thin layer chromatography method (General Rule 0502), 2 μ l of each of the above three solutions was taken and spotted on the same silica gel G thin layer plate, and ethyl acetate-acetone-formic acid-water (5:5:1:1) was used as the developing agent. The plate was developed, taken out, and dried. In the chromatogram of the test sample, a yellow spot of the same color appeared at the corresponding position of the chromatogram of the reference medicinal material; then sprayed with 10% sulfuric acid ethanol solution, heated at 110°C until the spot was clearly colored. In the chromatogram of the test sample, a spot of the same color appeared at the corresponding position of the chromatogram of the reference medicinal material and the chromatogram of the reference substance.

【 INSPECTION 】

The water content shall not exceed 8.5% (General Rule 0832 Method 2).

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

Heavy metals and harmful elements shall be determined according to the lead, cadmium, arsenic, mercury and copper determination methods (General Rule 2321 Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Mass Spectrometry). Lead shall not exceed 5 mg/kg; cadmium shall not exceed 1 mg/kg; arsenic shall not exceed 2 mg/kg; mercury shall not exceed 0.2 mg/kg; and copper shall not exceed 20 mg/kg.

【 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-water (15:85) is used as mobile phase; detection wavelength is 238nm. The number of theoretical plates calculated based on the peak of Gardenia jasminoides should not be less than 1500. Preparation of reference solution Take an appropriate amount of Gardenia jasminoides reference substance, accurately weigh it, add methanol to make a solution containing 30% of each solution, and then obtain it.

Preparation of test solution Take about 0.1 g of this product powder (passed through a No. 4 sieve), accurately weigh it, put it in a stoppered conical bottle, accurately add 25 ml of methanol, weigh it, ultrasonically treat it for 20 minutes, let it cool, weigh it again, make up the lost weight with methanol, shake it well, and filter it. Accurately measure 10 ml of the filtrate, put it in a 25 ml volumetric bottle, add methanol to the scale, shake it well, and then obtain it. Determination method Accurately pipette 10 hours of reference solution and test solution respectively and inject into liquid chromatograph for determination.

This product, calculated on the basis of dry product, contains not less than 1.8% of Gardeniae (C17 H24 O10).

DECOCTION PIECES**【 PROCESSING 】**

Gardeniae removes impurities and crushes.

【 PROPERTIES 】

This product is in irregular pieces. The surface of the peel is red-yellow or brown-red, and some can be seen in wing-like vertical and horizontal directions. There are many seeds, flat oval, dark red or red-yellow. The smell is slight, and the taste is slightly sour and bitter.

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

Same as medicinal materials.

Stir-fried gardenia Take clean gardenia and stir-fry it according to the stir-frying method (General Rule 0213) until it is yellow-brown.

【 PROPERTIES 】

This product is in the shape of gardenia pieces, yellow-brown.

【 CONTENT DETERMINATION 】

Same as medicinal materials, the medicinal materials contain not less than 15% of Gardeniae (C17H24O10).

**【 IDENTIFICATION 】 【 INSPECTION】
(MOISTURE AND TOTAL ASH) 】**

Same as medicinal materials.

【 NATURE AND FLAVOR AND MERIDIANS 】

Bitter, cold. Enters the heart, lung, and triple burner meridians.

【 FUNCTIONS AND INDICATIONS 】

Purges fire and relieves restlessness, clears heat and removes dampness, cools blood and detoxifies; externally used to reduce swelling and relieve pain. Used for restlessness due to fever, damp-heat jaundice, painful stranguria, vomiting of blood heat, red and swollen eyes, fire poison sores; external treatment of sprains and contusions.

【 USAGE AND DOSAGE 】

6~10g. For external use, grind into powder and apply.

【 STORAGE 】

Place in a ventilated and dry place.