

# REHMANNIA ROOT



This product is a processed product of raw Rehmannia root.

## 【 PROCESSING 】

(1) Take raw Rehmannia root and stew it according to the wine stewing method (General Rule 0213) until the wine is absorbed, take it out, dry it in the sun until the mucus on the skin is slightly dry, cut it into thick slices or blocks, and dry it. For every 100kg of raw Rehmannia root, use 30-50kg of yellow wine.

(2) Take raw Rehmannia root and steam it according to the steaming method (General Rule 0213) until it is black and moist, take it out, dry it in the sun until it is about 80% dry, cut it into thick slices or blocks, and dry it.

## 【 PROPERTIES 】

This product is irregular pieces and fragments of different sizes and thicknesses. The surface is black, shiny, and sticky. It is soft and tough, not easy to break, and the cross section is black and shiny. It has a slight odor and tastes sweet.

## 【 IDENTIFICATION 】

Take 1g of the powder of this product, add 50ml of 80% methanol, ultrasonically treat for 30 minutes, filter, evaporate the filtrate, add 5ml of water to dissolve the residue, shake and extract 4 times with water-saturated n-butanol, 10ml each time, combine the n-butanol solution, evaporate to dryness, add 2ml of methanol to dissolve the residue, and use it as the test solution. Take another reference substance of *Verbascum saccharum officinale*, add methanol to make a solution containing 1mg per 1ml, as the reference solution. According to the thin layer chromatography method (General Rule 0502), take 5 $\mu$ l of the test solution and 2 $\mu$ l of the reference solution, respectively, and spot them on the same silica gel G thin layer plate, use ethyl acetate-methanol-formic acid (16: 0.5: 2) as the developing agent, develop, take out, dry, soak with 0.1% 2,2-diphenyl-1-naphthyl anhydrous ethanol solution, and dry. In the chromatogram of the test product, the same color spot appears at the corresponding position of the chromatogram of the reference substance.

## 【 INSPECTION 】 【 EXTRACT 】

Same as *Rehmannia glutinosa*.





## 【 CONTENT DETERMINATION 】

Determine according to HPLC (General Rule 0512).

Chromatographic conditions and system suitability test Use octadecylsilane bonded silica gel as filler; methanol-0.1% phosphoric acid solution (5:95) as mobile phase, detection wavelength is 203nm. The theoretical plate number calculated based on Rehmannia glutinosa D peak should not be less than 5000. Preparation of reference solution Take an appropriate amount of Rehmannia glutinosa D reference substance, weigh accurately, add 25% methanol to make a solution containing 70% per 1ml, and obtain.

Preparation of test solution Take this product and cut it into small pieces of about 5mm. After drying under reduced pressure at 80°C for 24 hours, grind it into coarse powder. Take about 1g, weigh it accurately, put it in a stoppered conical bottle, accurately add 25ml of 25% methanol, weigh it, ultrasonically treat it (power 400W, frequency 50kHz) for 1 hour, let it cool, weigh it again, make up the lost weight with 25% methanol, shake it well, centrifuge it at high speed for 10 minutes, filter the supernatant, and take the filtrate to obtain it.

Determination method Accurately take 10% of the reference solution and the test solution respectively, inject them into the liquid chromatograph, and determine them. This product contains not less than 0.050% of Rehmannia glutinosa D (C27 H42O20).

## 【 NATURE AND TASTE AND MERIDIANS 】

Sweet, slightly warm. It enters the liver and kidney meridians.

## 【 FUNCTIONS AND INDICATIONS 】

Nourishes blood and yin, replenishes essence and fills marrow. Used for blood deficiency, palpitations, irregular menstruation, metrorrhagia, liver and kidney yin deficiency, soreness of waist and knees, bone steaming and hot flashes, night sweats and spermatorrhea, internal heat and thirst, dizziness, tinnitus, and premature graying of hair.

## 【 USAGE AND DOSAGE 】

9~15g.

## 【 STORAGE 】

Store in a ventilated and dry place.

