Test Method of Gentiopicroside

A. Methods after ultrasonic extraction, the samples were detected by HPLC.

A. 2 Test instruments and tools

A. 2.1 Analytical balance, accuracy 1 / 100000

A. 2.2 Ultrasonic cleaner: 250W, 20KHz

A. 2.3 High performance liquid chromatograph

A. 3 Reagents and Solutions

A. 3.1 Methanol, analytically pure,

A. 3.2 Water, secondary distilled water

A. 3.3 Gentiopicrin reference substance

A. 3.4 Mobile phase preparation: it is prepared by mixing methanol water (25:75) and filtering through microporous membrane.

A. 3.5 Detector and detection wavelength: Ultraviolet Spectroscopic detector with detection wavelength of 270nm.

A. 4 Operation method

A. 4.1 Preparation of reference solution: accurately weigh gentiopicrin reference (accurate to 0.01mg) and add methanol to make it contain 40% per 1ml μ G as the control solution.

A. 4.2 Preparation of test solution: take about 30mg of gentian extract sample, accurately weigh it, add methanol for ultrasonic dissolution, and fix the volume with methanol as the test solution.

A. 4.3 Determination method

Accurately absorb the control solution and the test solution 20 μL respectively, Inject it into the liquid chromatograph for determination.

A. 5 Result calculation

The content of gentioside is calculated according to formula (B.1):

$$\text{Gentiopicroside (\%)} = \frac{S_1 \times C \times A}{S_0 \times (M - M \times B)} \times 100\%$$

Address: D-1205, Haibo plaza, 9th Fengcheng, Xi'an,
Shaanxi Province, China
Tel: 0086-029-86680917
Web: www.sxgreenfine.com