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Emodin Detection Method

1. Chromatographic conditions Chromatographic conditions
Mobile phase: methanol: water = 80:20 (V/V)
Wavelength: 254nm
Column: C18 (4.6 mm × 250mm, 5μm)
Column temperature: room temperature
Flow rate: 1.0ml/min
Column pressure: 1621 kPa
2. Preparation of reference solution:
Accurately weigh 5mg of emodin standard, put it into a 100ml measuring cup, add an appropriate amount of methanol to dissolve, and vibrate with ultrasonic until it is completely dissolved. Then Add methanol to the scale to obtain a standard solution.
3. Preparation of test solution:
Accurately weigh 5mg of emodin sample, put it into a 100ml measuring cup, add appropriate methanol to dissolve it, and shake it with ultrasonic until it dissolves. Then
Add methanol to the scale and filter with a 0.45μm microporous membrane to obtain the sample solution.
4. Determination method:
Inject the same amount of standard solution and test solution (20 UL) into the chromatograph, record the two hue diagrams and measure the reaction changes of the two main peaks.

$$X\% = \frac{A1}{A2} \times \frac{W2}{W1} \times 100\%$$

In the above formula, A1 refers to the peak area of the test sample, A2 is the peak area of the standard solution, W2 refers to the concentration of the standard solution, and W1 refers to the concentration of the test sample.