

METHOD OF ANALYSIS**AMYGDALIN****1. Instrument**

- a. HPLC-9a (Shimadzu)
- b. Sartorius electronic balance (Germany)
- c. KQ-----model 100, Washing device of ultrasonic wave 100-KQ

2. Condition

Chromatographic Column: ROM-150 ODS-c18 (4.6mm×150mm, 5μ)

Mobile Phase: Acetonitrile: Water: Acetic acid = 20 : 80 : 0.1 (V/V/V)

Flow Rate: 1.0mL/min, Wave Length: 220nm

Column: Room temperature

3. Standard solution

Accurately weigh 8 mg amygdalin standard (Sigma company U.S.A.), to a 25mL volumetric flask, add the right amount water to dissolve, Ultrasonic wave is shaken for 5 minutes till all dissolve in the water. Then add water to scale mark, it is obtained.

4. Testing solution

Transfer 8mg amygdalin powder, accurately weighed, to a 25ml volumetric flask, add the right amount water to dissolve, Ultrasonic wave is shaken for 5 minutes till all dissolve in the water, Then add water to scale mark, shake evenly, it is obtained.

5. Procedure

Separately inject equal volumes (about 20 μL) of the Standard preparation and the Assay preparation into the chromatograph, record the chromatograms, and measure the responses for the major peaks.

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

A1: the assay sample

A2: the standard peak area

W2: the concentration of standard

W1: the concentration of assay sample