GOOD YG-BIOTECH

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Determination of Chlorogenic acid contents

1 Instrument: High performance liquid chromatography (SP880) equipped with UV detector (SP100).

2 Reagents: Methanol: HPLC grade; Water: Ultra-pure water; Formic acid: HPLC grade

3 HPLC parameters:

a. Column: C18, 250 mm×4.6 mm(i.d.), 5 μm;

b. Mobile phase: Methanol: Water: Formic acid =30:70:1

c. Flow rate: 1.0 mL/min;

d. Column temperature: Ambient temperature;

e. Wave length: 330 nm;

4 Reference solution: accurately weigh 1 mg reference material into a 10 mL volumetric flask, dissolve with methanol and ultrasonic vibrations 10 mins then dilute to the scale with methanol.

5 Sample solution: accurately weigh 20 mg sample into a 50 mL volumetric flask, dissolved with methanol and ultrasonic vibrations 10 mins then dilute to the scale with methanol.

6 Calculation

Content= Ax/As · Cs/Cx ·100%

Cx: concentration of Sample solution

Cs: concentration of Reference solution

Ax: Peak area of Sample

As: Peak area of Reference