



We Bring Natural Ingredient From Nature

Shaanxi Guanjie Technology Co., Ltd.

INDOLE-3-CARBINOL TEST SOP

(STANDARD OPERATING PROCEDURE)

1. Objective: Establish standard operating procedure of Indole-3-Carbinol, ensure the accuracy of test results.

2.Scope:Indole-3-carbinol finished products

3.Responsibility: QC

4.Test standard: Customer standard

5. Procedures:

5.1 [Properties] This product is white or almost white crystalline powder.

5.2. [Solubility] hardly soluble in water, soluble in ethanol (96%), slightly soluble in dichloromethane.

5.3 Check

5.4.1 Loss on drying: Not more than 1.0%

5.4.1.1. Instruments and reagents: electronic balance (d = 0.01mg), electric oven thermostat.

5.4.1.2. Steps:

Weigh about 100mg sample, weigh in a flat weighing flask with constant weight, drying at 45 °C for two hours, remove to transfer to desiccator at room temperature, accurately weighed, record data, remove to continue 45 °C oven dried for two hours. Transfer dryer to room temperature, accurately weighed record data. Two data error should be less than 0.3mg.

5.5 Content standard requirements: 98% -102% (on dry basis)

Instrument and reagent

Electronic balance (d = 0.01mg), HPLC(high performance liquid chromatography), methanol (HPLC grade), purified water, triethylamine (AR).

2. Chromatographic conditions

The column: Xtimate C18, 4.6X250mm 5µm.

Mobile phase: methanol: water (60:40), triethylamine adjusted to pH = 8.0,degassing.

Wavelength: 254nm Column temperature: 30 °C

Flow rate: 1.0ml/min Injection volume: 20µl.

The measurement procedure: Contrast d:Dissolve 10mg Indole-3-Carbinol standard product into 25ml volumetric flask,into the contrast d6 times RSD%<2.0%, accurately weighed two samples to be tested 10mg, respectively, to 25 ml brown volumetric flask, dissolved in methanol, ultrasound 5min at room temperature for injection.

4 Data recording and calculation: external standard method

4.1. Formulas:
$$C\% = \frac{C_R \times A_S \times W_R}{A_R \times W_S \times (1 - A)} \times 100\%$$

A_S ——Sample peak area

W_S ——Sample weighed

A_R ——Standard peak area

W_R ——Standard product weighed

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A —— Sample loss on drying

C_R —— Standard content

Operation Cautions:

1. This product is sensitive to light and heat, with the influence of temperature and time. Experiment must be as fast as possible, and should be avoid light and air.

(2) The goods stored in a sealed container, protected from light, keep under -10 °C or less.