



# Sichuan Province Yuxin Pharmaceutical Co.Ltd

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City,Sichuan Province,China.

[www.scyuxin.com](http://www.scyuxin.com)

## Certificate of Analysis

Product Name: Andrographolide Specification: Raw materials  
Batch No: 210101 Packing: 25 kg/Drum  
Representative Quantity: 500.12 kg Manufacturing Date: 08/01/2021  
Analysis Basis: Chinese Pharmacopeia 2020 Expiry Date: 07/01/2023

| Item                     | Specification   | Result       |
|--------------------------|---|--------------|
| 【Characters】             | It should be colorless crystal powder;Odourless;Bitter  | Complies     |
| 【Melting range】          | 224~230℃  | 228.3~229.3℃ |
| 【Identification】         |   |              |
| ( 1 ) Chemical Reaction  | Take about 10 mg of sample, and add 2ml of ethanol dissolved, then add each 2 drops of 2% 3, Dinitrobenzoic acid with ethanol solution and 5% KOH with ethanol solution , after shaking, the color change to purple red | Complies     |
| ( 2 ) Chemical Reaction  | Take about 10 mg of the sample, and add 2ml of ethanol dissolved, then add potassium hydroxide with ethanol solution 2 ~ 3 drops, fade in red, to change yellow after placed  | Complies     |
| ( 3 ) Absorption Maximum | Maximum absorption at the wavelength of 224nm   | Complies     |
| (4) IR Spectrum          | The infrared absorption spectrum should be in agreement with the reference spectrum(spectrum collection 1095)   | Complies     |
| (5) Other Lactone        | In the chromatography of the sample, except for the main spot, no other spots   | Complies     |
| 【Tests】                  |   |              |
| Loss on drying           | ≤1.0%   | 0.61%        |
| Residue on ignition      | ≤0.1%   | 0.08%        |
| Ethanol                  | ≤0.5%,  | 0.28%        |
| Chloroform               | ≤0.006%   | 0.00007%     |
| 【Assay】                  | 95.0%~101.0%  | 98.85%       |

|                 |  |          |
|-----------------|--|----------|
| Microbial limit | Total Aerobic bacteria count $\leq 10^3$ cfu/g | 60cfu/g  |
|                 | Total mold & Yeast account $\leq 10^2$ cfu/g   | <10cfu/g |
| Conclusion      | It is in accordance with CP2020 .              |          |

Manager of QC : *[Signature]*

Examiner: *[Signature]*

Analyst: *[Signature]*

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