



Sichuan Province Yuxin Pharmaceutical Co.Ltd

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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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