

Lot: 0010118

Hallochem Group

HALLOCHEM

Chongqing Waycome Pharmaceutical Co.,Ltd.

CERTIFICATE OF ANALYSIS

|                    |             |                  |                               |
|--------------------|-------------|------------------|-------------------------------|
| Product name       | Artemisinin | Batch No.        | 1711001                       |
| Manuf. Date        | 2017-11-10  | Expiry Date      | 2019-11-09                    |
| Batch quantity     | 10Kgs       | Botanical source | Asteraceae Artemisia annua L. |
| Part of plant used | Aboveground | Test Standard    | Factory standard              |

| TEST               | SPECIFICATIONS                   | RESULTS       |
|--------------------|----------------------------------|---------------|
| Appearance         | Colorless needle crystal, bitter | conform       |
| Identification     | Positive                         | conform       |
| Melting point      | 150°C- 153°C                     | 151.2-152.1°C |
| Specific rotation  | +75° - +78 °                     | +75.7 °       |
| Related substances | ≤ 0.25%                          | <0.25%        |
| Sulphated ash      | ≤ 0.1 %                          | 0.04%         |
| Loss on drying     | ≤ 0.5%                           | 0.18%         |
| Heavy Metals       | ≤20ppm                           | <20ppm        |
| Assay              | 98.0 - 102.0 %                   | 99.59%        |

Storage: Closed keep in cool,dry and dark place ;keep from heat and strong light

Conclusion: The product complies with the Factory standard

Quality Manager:

宋永章

Rechecker:

易洪斌

Analyst:

刘兵



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