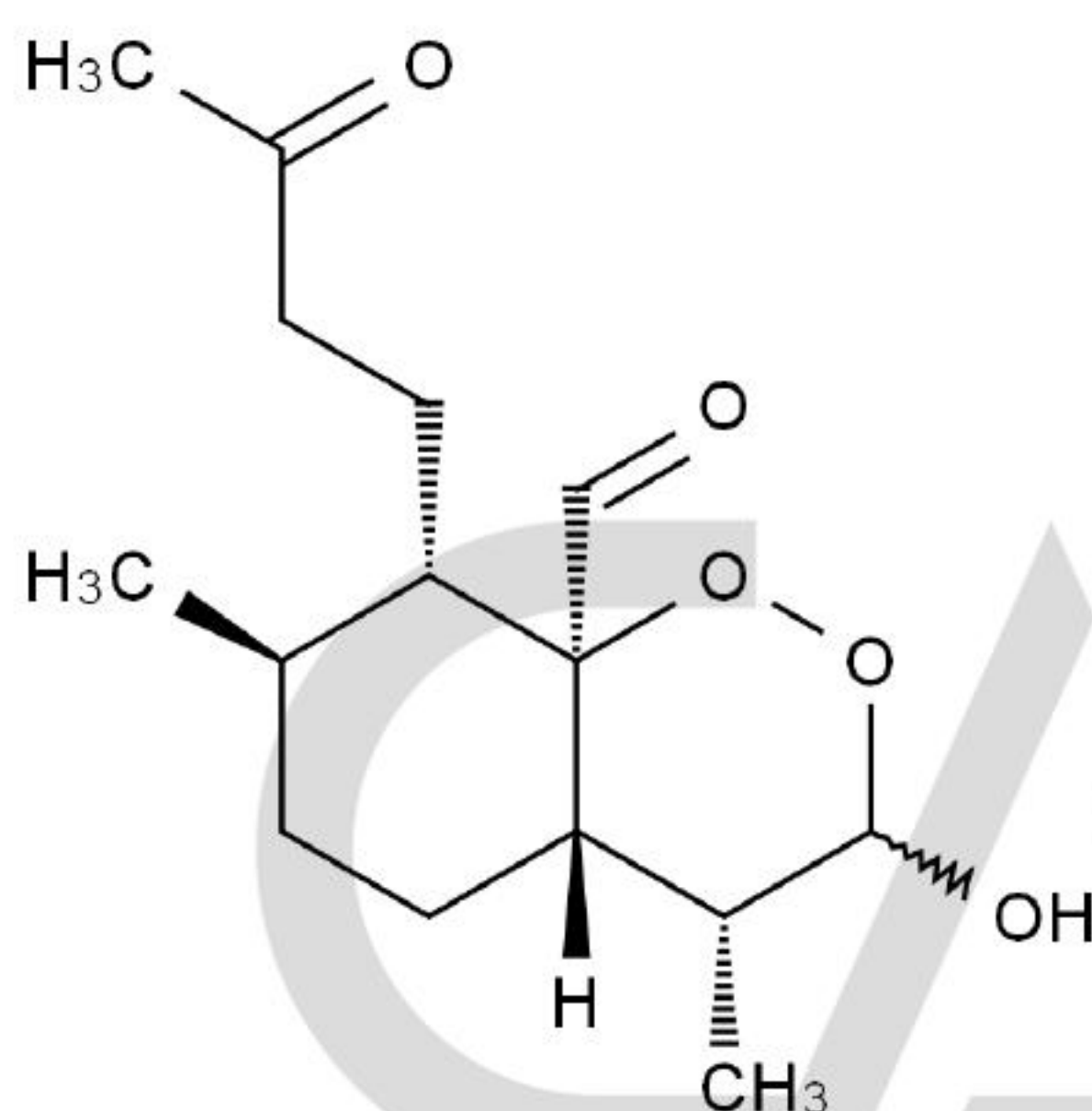


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                |                            |                                           |
|---------------------------|------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Artesunate Impurity 1                          | <b>Catalogue Number:</b>   | C4X-15471                                 |
| <b>Synonyms:</b>          | N/A                                            | <b>Lot Number:</b>         | 0409-RH-0116                              |
| <b>CAS Number:</b>        | 958447-25-1                                    | <b>Expiry Date:</b>        | Apr 13, 2030                              |
| <b>Molecular Formula:</b> | C <sub>15</sub> H <sub>24</sub> O <sub>5</sub> | <b>Storage:</b>            | -80°C±5°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 284.35                                         | <b>Shipping Condition:</b> | Shipping with Dry Ice                     |
| <b>Solubility:</b>        | Acetonitrile                                   |                            |                                           |

Chemical Structure:



| Test Items     | Method            | Results                  |
|----------------|-------------------|--------------------------|
| Appearance     | Visual inspection | Colourless Sticky Liquid |
| Identification | LCMS&HNMR         | Confirmed                |
| Purity         | HPLC              | 98.284%                  |
| Loss on Drying | TGA               | 0.6688%                  |
| Assay          |                   | 97.6%                    |

## Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss on Drying) \* Purity HPLC (%) / 100%

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

## Signature:

Prepared by:

*Koi*

Reviewed by:

*Lisa*

Approved by General Manager:

*David*

Date: Apr 14, 2026

Date: Apr 14, 2026

Date: Apr 14, 2026



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

