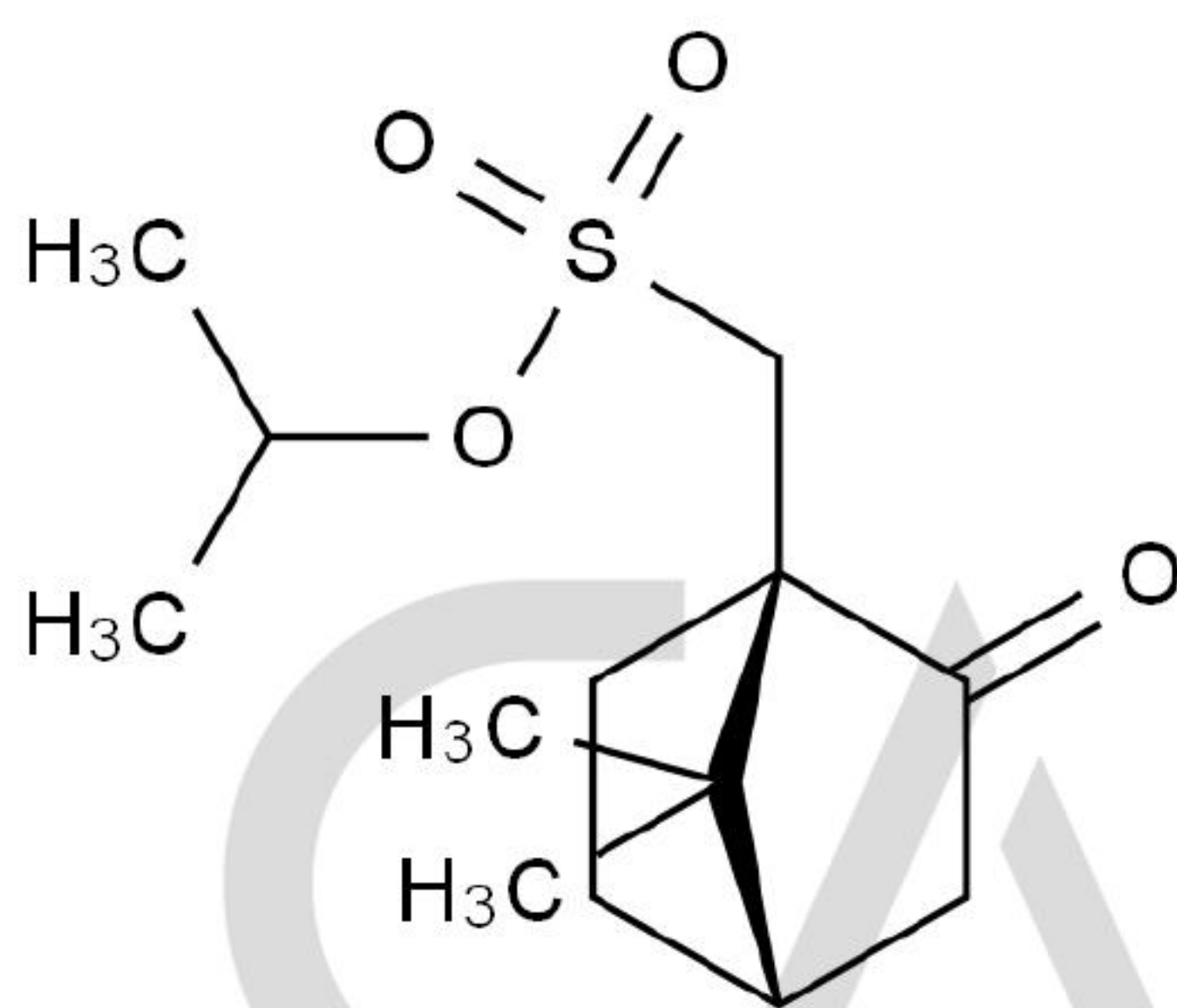


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                  |                          |                                           |
|---------------------------|--------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Isopropyl L-camphorsulfonate                     | <b>Catalogue Number:</b> | C4X-21144                                 |
| <b>Synonyms:</b>          | N/A                                              | <b>Lot Number:</b>       | 0516-RG-0011                              |
| <b>CAS Number:</b>        | 1242184-40-2                                     | <b>Expiry Date:</b>      | May 25, 2028                              |
| <b>Molecular Formula:</b> | C <sub>13</sub> H <sub>22</sub> O <sub>4</sub> S | <b>Storage:</b>          | -20°C±5°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 274.38                                           |                          |                                           |

Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | GCMS&HNMR         | Confirmed   |
| Purity         | GC                | 98.7%       |
| Assay          | qNMR              | 96.6%       |

## Comment:

Assay was determined by quantitative <sup>1</sup>H-NMR.

## Signature:

Prepared by:

*Nice*

Reviewed by:

*Koi*

Approved by General Manager:

*David*

Date: May 26, 2025

Date: May 26, 2025

Date: May 26, 2025

