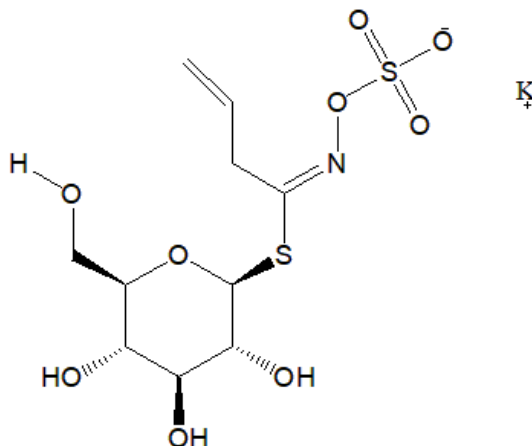


## Certificate of Analysis



|                         |   |
|-------------------------|---|
| <b>PRODUCT</b>          | <b><i>Sinigrin potassium salt</i></b>                           |
| <b>BATCH #</b>          | PA-016-128-A  |
| <b>ASSAY METHOD</b>     | HPLC, <sup>1</sup> H-NMR  |
| <b>REPORT DATE</b>      | 2019-08-05  |
| <b>CHEMICAL NAME</b>    | 2-Propenyl glucosinolate potassium salt                         |
| <b>OTHER NAMES</b>      | Allylglucosinolate potassium salt                               |
| <b>CHEMICAL FORMULA</b> | C <sub>10</sub> H <sub>16</sub> KNO <sub>9</sub> S <sub>2</sub> |
| <b>MOLECULAR WEIGHT</b> | 397.46 g/mol  |
| <b>CAS REG. #</b>       | 3952-98-5   |
| <b>STORAGE</b>          | <-20 degrees C; dark  |
| <b>EXPIRATION DATE</b>  | 2021-08-05  |
| <b>NOTES</b>            |   |

### Analytical Data

| TEST               | METHOD             | SPECIFICATION | RESULT   |
|--------------------|--------------------|---------------|----------|
| HPLC               | 210 nm             | > 95%         | 99.1%    |
| <sup>1</sup> H-NMR |                    | Conforms      | Conforms |
| Appearance         | Light yellow solid |               |          |
| Mass (mg)          | 1003.3             |               |          |

Signed: Jan Glinski, Ph.D.  
 Planta Analytica LLC  
 August 5, 2019

