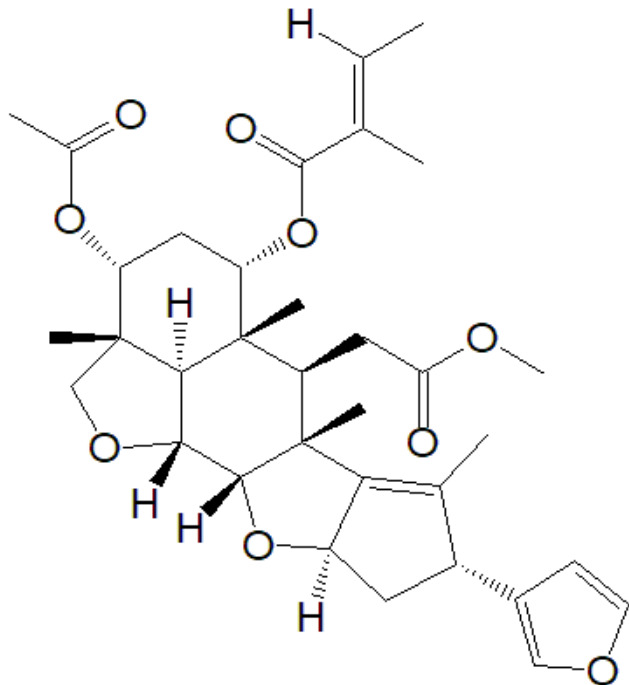


## Certificate of Analysis



|                         |  |
|-------------------------|--|
| <b>PRODUCT</b>          | Salannin                                       |
| <b>BATCH #</b>          | PA-036-147-001                                 |
| <b>ASSAY METHOD</b>     | HPLC, <sup>1</sup> HNMR                        |
| <b>REPORT DATE</b>      | 2019-02-15                                     |
| <b>CHEMICAL NAME</b>    |  |
| <b>OTHER NAMES</b>      |  |
| <b>CHEMICAL FORMULA</b> | C <sub>34</sub> H <sub>44</sub> O <sub>9</sub> |
| <b>MOLECULAR WEIGHT</b> | 596.717  |
| <b>CAS REG. #</b>       | 992-20-1                                       |
| <b>STORAGE</b>          | Preferred: -20C in dark                        |
| <b>EXPIRATION DATE</b>  | 2021-02-09                                     |

**NOTES**

**Analytical Data**

| TEST       | METHOD | SPECIFICATION | RESULT                  |
|------------|--------|---------------|-------------------------|
| HPLC       | @217nm | >95%          | 98.0%                   |
| 1H-NMR     |        | Conforms      | Conforms                |
| Appearance | NA     | NA            | White crystalline solid |

Signed: Jan Glinski, Ph.D.  
 Planta Analytica LLC  
 February 15, 2019

