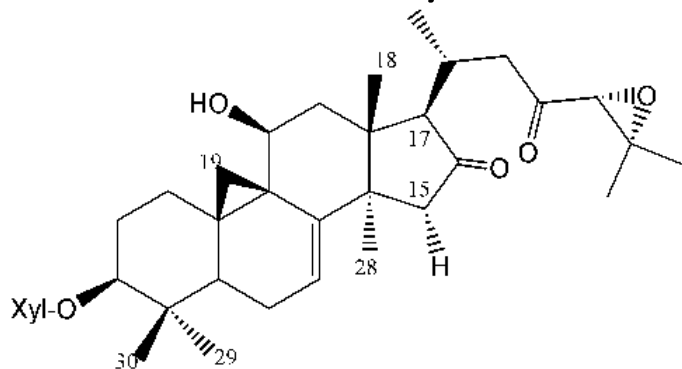


## Certificate of Analysis



|                         |  |
|-------------------------|--|
| <b>PRODUCT</b>          | Cimicifugoside H-1                             |
| <b>BATCH #</b>          | 006-117.1                                      |
| <b>ASSAY METHOD</b>     | HPLC, <sup>1</sup> H-NMR                       |
| <b>REPORT DATE</b>      | 2018/04/16                                     |
| <b>CHEMICAL NAME</b>    |  |
| <b>Other Names</b>      |  |
| <b>CHEMICAL FORMULA</b> | C <sub>35</sub> H <sub>52</sub> O <sub>9</sub> |
| <b>MOLECULAR WEIGHT</b> | 616.76   |
| <b>CAS REG. #</b>       | 163046-73-9                                    |
| <b>STORAGE</b>          | Preferred: -20C in dark                        |
| <b>EXPIRATION DATE</b>  | 2021/04/15                                     |
| <b>NOTES</b>            | From Cimicifuga racemose                       |

### Analytical Data

| TEST               | METHOD | SPECIFICATION | RESULT          |
|--------------------|--------|---------------|-----------------|
| HPLC at 245 nm     | 210 nm | >95%          | 99.0%           |
| <sup>1</sup> H-NMR |        | Conforms      | Conforms        |
| Residual Solvents  |        |               |                 |
| Appearance         | NA     | NA            | White Crystals. |

Signed: Jan Glinski, Ph.D.  
 Planta Analytica LLC  
 August 06, 2018

