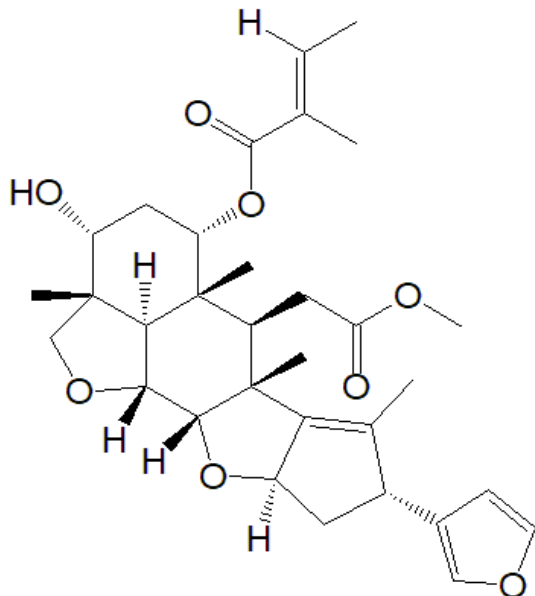


## Certificate of Analysis



<b>PRODUCT</b>	3-deacetylsalannin
<b>BATCH #</b>	PA 036-146-001
<b>ASSAY METHOD</b>	HPLC, <sup>1</sup> HNMR
<b>REPORT DATE</b>	2019-05-15
<b>CHEMICAL NAME</b>	IUPAC: [(1~{R},2~{S},4~{R},6~{R},9~{R},10~{R},11~{R},12~{S},14~{R},15~{R},18~{R})-6-(furan-3-yl)-14-hydroxy-10-(2-methoxy-2-oxoethyl)-7,9,11,15-tetramethyl-3,17-dioxapentacyclo[9.6.1.0 <sup>2,9</sup> .0 <sup>4,8</sup> .0 <sup>15,18</sup> ]octadec-7-en-12-yl] (~{E})-2-methylbut-2-enoate
<b>OTHER NAMES</b>	Deacetylsalannin; Desacetyl Salannin
<b>CHEMICAL FORMULA</b>	C <sub>32</sub> H <sub>42</sub> O <sub>8</sub>
<b>MOLECULAR WEIGHT</b>	554.68
<b>CAS REG. #</b>	1110-56-1
<b>STORAGE</b>	Preferred: -20C in dark
<b>EXPIRATION DATE</b>	2024-05-16
<b>NOTES</b>	Secondary metabolite from neem.

### Analytical Data

TEST	METHOD	SPECIFICATION	RESULT
HPLC	217 nm	>97%	99.0%
<sup>1</sup> H-NMR		Conforms	Conforms
Appearance	NA	NA	White solid

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

