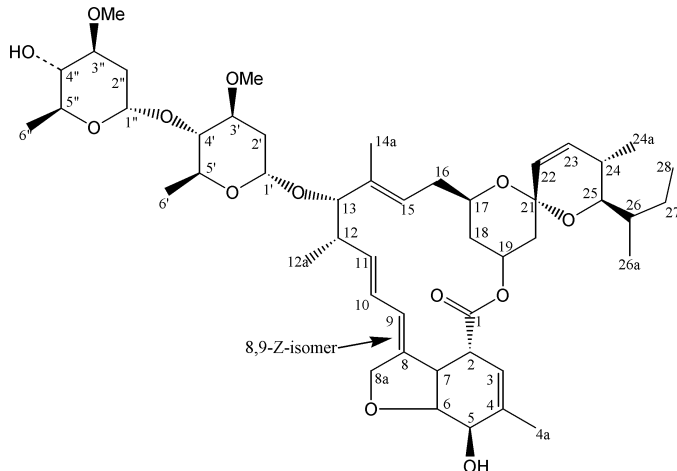


## Certificate of Analysis



<b>PRODUCT</b>	(8,9-Z)-Avermectin B1a
<b>BATCH #</b>	PA 041-043-300
<b>ASSAY METHOD</b>	HPLC, <sup>1</sup> HNMR
<b>REPORT DATE</b>	2019-05-23
<b>CHEMICAL NAME</b>	
<b>OTHER NAMES</b>	
<b>CHEMICAL FORMULA</b>	C <sub>48</sub> H <sub>72</sub> O <sub>14</sub>
<b>MOLECULAR WEIGHT</b>	873.1
<b>CAS REG. #</b>	113665-89-7
<b>STORAGE</b>	Preferred: -20C in dark
<b>EXPIRATION DATE</b>	2020-05-23

### NOTES

### Analytical Data

TEST	METHOD	SPECIFICATION	RESULT
HPLC	240 nm	NA	98.9%
<sup>1</sup> H-NMR		Conforms	Conforms
Residual Solvents		NA	NA
Appearance	NA	NA	Off-white solid

Signed: Jan Glinski, Ph.D.  
 Planta Analytica LLC  
 May 23, 2019

