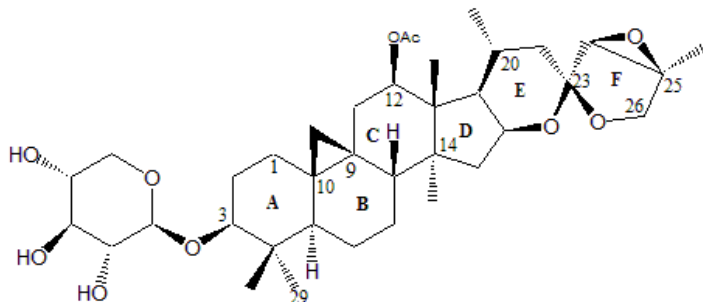


## Certificate of Analysis



<b>PRODUCT</b>	23-Epi-26-deoxyactein
<b>BATCH #</b>	PA 031-043-A
<b>ASSAY METHOD</b>	HPLC, <sup>1</sup> H-NMR
<b>REPORT DATE</b>	2017-06-12
<b>CHEMICAL NAME</b>	β-D-xylopyranoside-(3β,12β,16 β,23S, 24R, 25R)-12-acetoxy-16,23:23,26:24,25-triepoxy-9,19-cyclolanostan-3-yl
<b>Other Names</b>	27-Deoxyactein
<b>CHEMICAL FORMULA</b>	C <sub>37</sub> H <sub>56</sub> O <sub>10</sub>
<b>MOLECULAR WEIGHT</b>	660.85
<b>CAS REG. #</b>	264624-38-6
<b>STORAGE</b>	Preferred: -20C in dark
<b>EXPIRATION DATE</b>	
<b>NOTES</b>	From Cimicifuga racemosa

### Analytical Data

TEST	METHOD	SPECIFICATION	RESULT
HPLC at 245 nm	210 nm	>97%	99.4%
<sup>1</sup> H-NMR		Conforms	Conforms
Residual Solvents		<0.2%	
Appearance	NA	NA	Off-white solid
Adjusted Purity	HPLC purity x [100%-0% residual solvent] = 99.4 x 1 = 99.4%		
Mass	10.4 mg		

Signed: Jan Glinski, Ph.D.  
 Planta Analytica LLC  
 June 12, 2017

