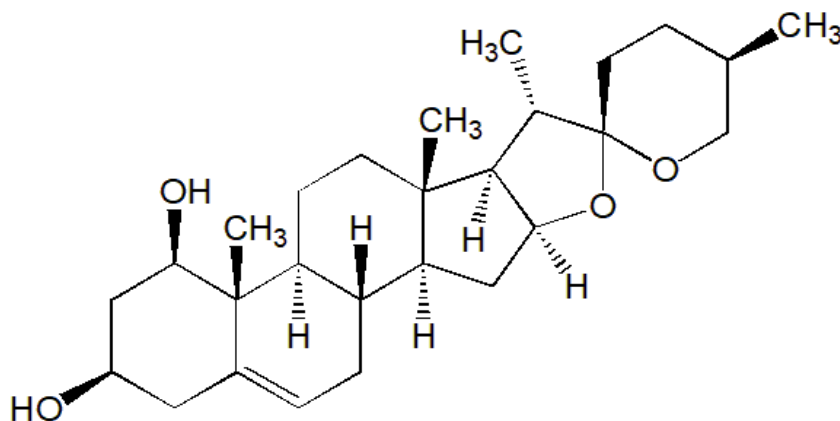


## Certificate of Analysis



<b>PRODUCT</b>	<b>Ruscogenin</b>
<b>BATCH #</b>	PA-022-022-R
<b>ASSAY METHOD</b>	HPLC, <sup>1</sup> H-NMR
<b>REPORT DATE</b>	2019-08-05
<b>CHEMICAL NAME</b>	(1β,3β,25R)-Spirost-5-ene-1,3-diol
<b>OTHER NAMES</b>	N/A
<b>CHEMICAL FORMULA</b>	C <sub>27</sub> H <sub>42</sub> O <sub>4</sub>
<b>MOLECULAR WEIGHT</b>	430.62 g/mol
<b>CAS REG. #</b>	472-11-7
<b>STORAGE</b>	<-20 degrees C; dark
<b>EXPIRATION DATE</b>	2021-08-06
<b>NOTES</b>	From butcher's broom.

### Analytical Data

TEST	METHOD	SPECIFICATION	RESULT
HPLC	200 nm	> 95%	96.7%
<sup>1</sup> H-NMR		Conforms	Conforms
Appearance		White solid	
Mass (mg)		101.64	

Signed: Jan Glinski, Ph.D.  
 Planta Analytica LLC  
 August 5, 2019

