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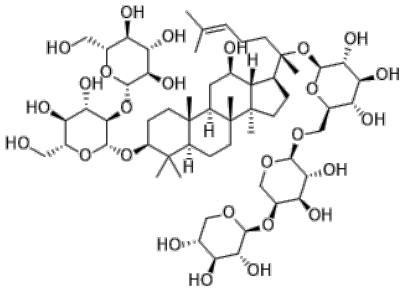
Certificate of Analysis

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Product Name	:	Ginsenoside Ra1
Cat. No.	:	PC-28615
CAS No.	:	83459-41-0
Batch No.	:	PC-2861501
Chemical Name	:	(2R,3S,4S,5R,6S)-2-((((2S,3R,4R,5S)-3,4-Dihydroxy-5-(((2S,3R,4S,5R)-3,4,5-trihydroxytetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-2-yl)oxy)methyl)-6-(((S)-2-((3S,5R,8R,9R,10R,12R,13R,14R,17S)-3-(((2R,3R,4S,5S,6R)-4,5-dihydroxy-6-(hydroxymethyl)-3-(((2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-2-yl)oxy)-12-hydroxy-4,4,8,10,14-pentamethylhexadecahydro-1H-cyclopenta[a]phenanthren-17-yl)-6-methylhept-5-en-2-yl)oxy)tetrahydro-2H-pyran-3,4,5-triol

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Weight	:	1211.40	
Molecular Formula	:	$C_{58}H_{98}O_{26}$	
Storage	:	Powder	-20°C 12 Months
			4°C 6 Months
		In solvent	-80°C 6 Months
			-20°C 6 Months
Chemical Structure	:		

ANALYTICAL DATA

Appearance	:	Solid powder
^{1}H NMR Spectrum	:	Consistent with
HPLC	:	Consistent with
NP	:	Consistent with
Purity (HPLC and/or LCMS)	:	>98%
Conclusion	:	The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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