

## **Certificate of Analysis**

## Ginsenoside Ra1

Cat. No.: HY-N2506 83459-41-0 CAS No .: Batch No.: 243484

**Chemical Name:**  $\beta$ -D-Glucopyranoside, (3 $\beta$ ,12 $\beta$ )-12-hydroxy-20-[(O- $\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 4)-O- $\alpha$ -L-arabinopyran

osyl-(1→6)-β-D-glucopyranosyl)oxy]dammar-24-en-3-yl 2-O-β-D-glucopyranosyl-

## PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_{58}H_{98}O_{26}$ **Molecular Weight:** 1211.38

4°C, protect from light Storage:

\* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

**Chemical Structure:** 

## ANALYTICAL DATA

Appearance: White to off-white (Solid) <sup>1</sup>H NMR Spectrum: Consistent with structure MS: Consistent with structure

Purity (HPLC): 99.77%

Conclusion: The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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