## **Certificate of Analysis**

## **Astin A**

Cat. No.: HY-P3145 CAS No .: 151201-75-1 Batch No.: 309484

**Chemical Name:**  $Cyclo[(3R)-3-phenyl-\beta-alanyl-L-allothreonyl-(3S,4R)-3,4-dichloro-L-prolyl-(2S)-2-aminobutanoyl-(3S,4R)-3,4-dichloro-L-prolyl-(3S,4R)-3,4-dichloro$ 

-L-seryl]

## PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_{25}H_{33}Cl_2N_5O_7$ 

Molecular Weight: 586.46

Storage: Sealed storage, away from moisture

> -80°C Powder 2 years

> > -20°C 1 year

\* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

**Chemical Structure:** 

## **ANALYTICAL DATA**

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

Purity (HPLC): 98.06%

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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