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## Certificate of Analysis

### **Bis-PEG5-acid**

Cat. No.:	HY-116006
CAS No.:	439114-13-3
Batch No.:	66906
Chemical Name:	4,7,10,13,16-Pentaoxanonadecanedioic acid

#### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	C <sub>14</sub> H <sub>26</sub> O <sub>9</sub>
Molecular Weight:	338.35
Storage:	-20°C, stored under nitrogen
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)

**Chemical Structure:** 



#### ANALYTICAL DATA

Appearance:	White to off-white (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
Assay (QNMR):	95.77%
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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