## **Certificate of Analysis**

## N1-Acetylspermine (trihydrochloride)

Cat. No.: HY-113200A
CAS No.: 77928-70-2
Batch No.: 364080

Chemical Name: Acetamide, N-[3-[[4-[(3-aminopropyl)amino]butyl]amino]propyl]-, hydrochloride (1:3)

## PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C<sub>12</sub>H<sub>31</sub>Cl<sub>3</sub>N<sub>4</sub>O

Molecular Weight: 353.76

Storage: -20°C, sealed storage, away from moisture

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

**Chemical Structure:** 

 $\bigcup_{H}^{O} \bigvee_{H}^{N} \bigvee_{N}^{N} \bigvee_{N}^{N} \mathsf{H}_{2}$ 

HCI HCI HC

## **ANALYTICAL DATA**

Appearance: White to off-white (Solid)

Purity: 99.90%

**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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