## **Certificate of Analysis**

## TCEP (hydrochloride)

Cat. No.: HY-W011500 CAS No.: 51805-45-9 Batch No.: 280787

**Chemical Name:** Propanoic acid, 3,3',3''-phosphinidynetris-, hydrochloride (1:1)

## PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_9H_{16}ClO_6P$ Molecular Weight: 286.65

Storage: 4°C, protect from light, stored under nitrogen

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

**Chemical Structure:** 

## **ANALYTICAL DATA**

White to light yellow (Solid) Appearance: <sup>1</sup>H NMR Spectrum: Consistent with structure MS: Consistent with structure

Purity (HPLC): 99.18%

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

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

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