



# Certificate of analysis

Productname: Cyclophosphamide monohydrate

Cas number: 6055-19-2

Molecular Formula: C<sub>7</sub>H<sub>15</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>2</sub>PH<sub>2</sub>O

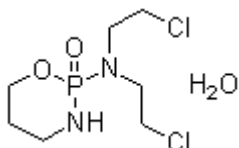
Molecular Weight: 279.10

Date of production: May. 25, 2018

Batch NO: 20180525

Exp Date: May. 24, 2020

Chemical structure:



Items	Specifications	Results
Description	White, crystalline powder. Liquefies upon loss of its water of crystallization	Conforms
Solubility	Soluble in water and in alcohol	Conforms
Identification	1) IR spectrum of the sample should correspond to that of reference standard	Conforms
	2) The retention time of the major peak in the chromatogram of the assay preparation corresponds to that in the chromatogram of the standard preparation, as obtained in the assay	Conforms
PH Value	Between 3.9 to 7.1	6.0
Water	Between 5.7%~6.8%	6.4
Heavy Metals	Not more than 20ppm	<20ppm
Sterile	Should meet sterility tests	sterile
Assay	97.0 to 103.0% of C <sub>7</sub> H <sub>15</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub> P on the anhydrous basis	99.3%

**Conclusion: It complies with USP32 Standard.**

Analyst: Zhao

Checker: Liu

Q.C Director. Fang F