



西安菲斯弗生物科技有限公司

Xi'an Faithful Biological Technology Co., Ltd.

Certificate of Analysis-Piracetam

CAS: 7491-74-9

Batch Number: *FTF220303* Batch Quantity: 500kg

Manufacture Date: Mar.03th,2021 Analysis Date: Mar.03th,2021 Certificate Date: Mar.03th,2021

Storage Store in cool & dry place. Store in well-closed containers.

Shelf life 2 years when properly stored.

Item	Standard	Test Results
Appearance	White or almost white crystalline powder	Complies
Identification	A: IR	Complies
	B: The retention time of the major peak of the sample solution corresponds to that of the standard solution as obtained in the Assay	
Water	6.0% ~ 7.0%	6.5%
Propanolamine	NMT 0.025%	Complies
Degradation Products (TLC)	a), Bis(2-chloroethyl)amine hydrochloride NMT 0.06%.	Complies
	b), 3-(2-Chloroethyl)-2-oxo-2-hydroxy-1,3,6,2-oxadiazaphosphonane NMT 0.06%.	
	c), 3-Aminopropyl dihydrogen phosphate NMT 0.06%.	
	d), 3-{2-(2-Chloroethylamino)ethylamino}propyl dihydrogen Phosphate dihydrochloride NMT 0.06%.	
	e), Any unspecified impurity NMT 0.06%.	
Chlorides	≤ 330 ppm	Complies
Phosphates	≤ 100 ppm	Complies
Bacterial Endotoxins	NMT 0.0625 Eu/mg	Complies
PH	3.9% ~ 7.1%	4.2%
Residual solvents	Acetone NMT 5000ppm	Not detected
	Methylenechloride NMT 600ppm	
Assay	98.5% ~ 101%	99.2%

Conclusion: Conform with enterprise specification .

QC MANAGER: 刘娟 INSPECTOR: 黄子烨

