



西安菲斯弗生物科技有限公司

Xi'an Faithful Biological Technology Co., Ltd.

Certificate of Analysis-Tulathromycin A

CAS: 217500-96-4

Batch Number: FTF0241112 **Batch Quantity:** 100kg

Manufacture Date: Nov.10th,2024 **Analysis Date:**Nov.11th,2024 **Certificate Date:** Nov.12th,2024

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

Shelf life 3 years when properly stored.

Items	Standard	Result
Appearance	White or almost white powder	White powder
Solubility	Freely soluble in methanol,acetone and ethyl acetate,soluble in ethanol	Complies
Identification	The retention time for the major peak of sample should correspond to that of reference standard(HPLC)	Complies
	The infrared absorption spectrum of sample should correspond to that of reference standard	Complies
Specific Optical Rotation	-22°~-26°	-24°
Water	≤0.5%	0.05%
Heavy Metals	≤20ppm	Complies
Residue of Ignition	≤0.1%	0.06%
Color of Solution	Colorless or not more than No.1 Orange Yellow standard solution	<OY1
Assay	95.0%~103.0%	98.7%
Related substances	Total impurities≤6.0%	0.83%
Residual Solvents	N-heptane≤0.5%	0.02
	Dichloromethane≤0.06%	ND

Conclusion: Conform with enterprise specification .

QC MANAGER: 刘娟 **INSPECTOR:** 黄子烨

