



西安菲斯弗生物科技有限公司

Xi'an Faithful Biological Technology Co., Ltd.

Certificate of Analysis-Ibrutinib

CAS: 936563-96-1

Batch Number: *FTF0240911* Batch Quantity: 20kg

Manufacture Date: Sep.09th,2024 Analysis Date: Sep.10th,2024 Certificate Date: Sep.11th,2024

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

Shelf life 3 years when properly stored.

Items	Specifications	Results
Appearance	White to off-white crystalline powder	White crystalline powder
Identification	H-NMR, MS	Complies
Solubility	Soluble in DMSO and THF slightly soluble in MeOH, insoluble in H ₂ O	Soluble in DMSO and THF slightly soluble in MeOH, insoluble in H ₂ O
Melting point	154~159°C	155.9°C
Specific rotation	-122~-132°	-128.6°
Residual Solvents	MeOH≤0.3%	ND
	EtOH≤0.5%	ND
	Acetone≤0.5%	0.10%
	ACN≤0.041%	ND
	EtOAc≤0.5%	0.0003%
	THF≤0.072%	ND
	2-Me THF≤0.072%	ND
	n-Heptane≤0.5%	0.0002%
	Toluene≤0.089	ND
Purity (HPLC)	≥99.5%	99.93%

Conclusion: Conform with enterprise specification .

QC MANAGER: 刘娟 INSPECTOR: 黄子烨

