



西安菲斯弗生物科技有限公司

Xi'an Faithful Biological Technology Co., Ltd.

Certificate of Analysis-(S)-(+)-Ibuprofen

CAS: 51146-56-6

Batch Number: FTF0240326 Batch Quantity: 160kg

Manufacture Date: Mar.24th,2024 Analysis Date: Mar.25th,2024 Certificate Date: Mar.26th,2024

Storage Store in cool & dry place. Store in well-closed containers.
Shelf life 3 years when properly stored.

Test Item	Analysis Specification	Result
Description	White crystalline power	white crystalline power
Identification	A: IR the spectrum is concordant with the spectrum of (S)-ibuprofen RS	Conforms
	B: The retention time of the principal peak is concordant with that of (S)-ibuprofen RS(HPLC)	Conforms
	C: Show two maximum absorption at 265nm and 273nm, two minimum absorption at 245nm and 271nm and a shoulder peak at 259nm.(UV)	Conforms
Melting point	50~54°C	50.9~51.7°C
Optical rotation	+55°~ +60°	+57.1°
Chloride	≤0.01%	<0.1%
Loss on drying	≤0.5%	0.03%
Residue on ignition	≤0.1%	0.01%
Heavy metals	≤10ppm	<10ppm
Residual solvents	Toluene not more than 800 ppm	3ppm
Related Substances	2-(4-butylphenyl)propionic acid <0.2%	Not detected
Assay (Dry Basis)	4-isobutylacetophenone <0.2%	Not detected
	Total impurities <0.7%	0.03%
	Any other individual impurity <0.2%	0.02%
	R-ibuprofen ≤1.5%	Conforms
	98.5%~101.0%	100.0%

Conclusion: Conform with enterprise specification .

QC MANAGER: 刘娟 INSPECTOR: 黄子烨

