

CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-364685 Lot Number: SAMPLE

Product Name: Tiotropium Bromide Monohydrate

CAS Number: 139404-48-1

Molecular Formula: $C_{19}H_{22}BrNO_4S_2.H_2O$

Molecular Weight: 490.43

Test	Specification	Result	
Appearance	White or almost white powder	Complies	
Assay	≥99%	99.8%	
Identification (Infrared Spectrum)	Conforms to structure	Complies	
Identification (UV)	Conforms to structure	Complies	
Residue on Ignition	≤0.1%	Complies	
Solubility	Sparingly soluble in methanol	Complies	
Specific Rotation	-0.5°~+0.5°	0.013°	
Heavy Metals	≤20 ppm	Complies	
Related Substances	Single impurity ≤0.2% Total impurities ≤1.0%	0.09% 0.19%	
Water Content	3.0-5.0%	3.5%	

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.