

CERTIFICATE OF ANALYSIS

Product: (2R,3S)-2-[(1R)-1-[3,5-Bis(trifluoromethyl)phenyl]ethoxy]-3-(4-fluorophenyl)morpholine 4-methylbenzenesulfonate[CAS:200000-59-5]

Batch No: 161101

Manufacturing Date: 2016-11-09

Expiry Date: 2018-11-08

Quantity: 100 Grams

<u>TESTING ITEM</u>	<u>SPECIFICATION</u>	<u>RESULT</u>
Appearance	White or off-white powder	White powder
Specific Rotation	+45°~+65°	+64.7°
Identification:RT (by HPLC)	Conform with reference standard	Conform
Water Content	Not more than 0.5%	0.5%
Residue On Ignition	Not more than 0.5%	0.1%
Heavy Metals	Not more than 20ppm	Conform
Related Substance		
Purity	Not less than 99.0%	99.9%
APT04	Not more than 0.1%	N.D.
(2R,3R,1R)-APT07	Not more than 0.1%	N.D.
Desfluoride impurity	Not more than 0.2%	N.D.
N-Bn impurity	Not more than 0.2%	N.D.
Any single unknown impurity	Not more than 0.5%	0.07%
Total impurities	Not more than 1.0%	0.1%
Chiral Purity	Not less than 99.5%	99.97%
Enantiomer	Not more than 0.5%	0.03%
Residual solvents		
Methanol	Not more than 3000 ppm	N.D.
Hexone	Not more than 5000 ppm	N.D.
THF	Not more than 720 ppm	55 ppm
Toluene	Not more than 890 ppm	5 ppm
n-Heptane	Not more than 5000 ppm	N.D.
Assay	Not less than 98.0%	99.2%

Conclusion:It Complies with the Enterprise's Standard.