



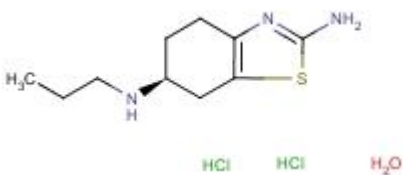
HANGZHOU DINGYAN CHEM CO.,LTD

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E-Mail:sales@dingyanchem.com,Web: www.dingyanchem.com

CERTIFICATE OF ANALYSIS

NO: **DYC081810117**

Product name	Pramipexole dihydrochloride monohydrate
CAS Number	191217-81-9
Molecule Structure	
Molecule Formula	C10H21Cl2N3OS
Batch number	20180711
Manufacture date	2018-07-11
Testing date	2018-07-11

Items	Standard	Result
Appearance	white or almost white, crystalline powder	almost white, crystalline powder
Identification	infrared absorption spectrophotometry	complies
	it gives positive reaction(a) of chlorides	complies
	the retention time of the principal peak is consistent with that of pramipexole(S-enantiomer) in the system suitability solution	complies
Ph	2.4~3.4	2.8
Related substances	individual impurity:NMT0.1% total impurities:NMT0.5%	individual impurity:0.04% total impurities:0.08%
Enantiomeric purity	NMT 1.0%	not detected
Residual solvents	methanol:NMT0.3%; ethanol:NMT0.5%; acetone:NMT0.5%; ethyl ether:NMT0.5%; ethyl acetate:NMT0.5%; tet	ethanol:0.062% methanol, acetone, ethyl ether, ethyl acetate, tetrah

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	rahydrofuran:NMT0.072%;dichloromethane:NMT0.06%	ydrofuran, dichloromethane: not detected
Sulfated ash	NMT 0.1%	0.16%
Heavy metals	NMT10ppm	complies
Water	4.5% to 6.5%	6.0%
Assay	98.0% to 102.0%	100.2%
Conclusion	the test results comply with the in-house specification	

Hangzhou Dingyan Chem Co.,Ltd.

Quality Control

QUALITY CONTROL:

Pauls

CHECK: 姚仙娟

INSPECTOR: 刘清风