



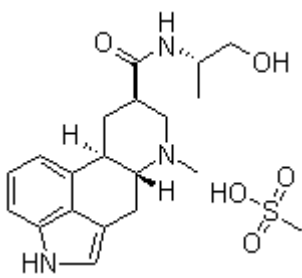
HANGZHOU DINGYAN CHEM CO.,LTD

TEL: 86-571-87157530,86465881,88025800, FAX:86-571-87156470

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

CERTIFICATE OF ANALYSIS

NO: **DYC081903121**

Product name	Dihydroergotoxine mesylate (USP34)
CAS Number	8067-24-1
Molecule Structure	
Molecule Formula	C33H45N5O5
Batch number	20181220
Manufacture date	2018-12-20
Testing date	2018-12-20

Items	Acceptance criteria	Result
Appearance	White to off white microcrystalline or amorphous , practically odorless powder	complies
Identity(IR)	The IR spectrum of the tested substance exhibits maxima at complies, the same wavelengths as the spectrum of the reference , standard obtained under the same conditions	complies
Specific optical rotation	10-15°	13.8°
PH value	4.2-5.2	4.8
Loss on drying	≤5.0%	2.4%
Ergotamine (TLC)	Not present	complies
Related substances		
Dihydroergocristine mesylate	30.3-36.3%	33.4%
Dihydroergocryptine mesylate	30.3-36.3%	33.5%
Dihydroergocornine mesylate	30.3-36.3%	33.3%
Ratio of DH-alpha to DH-beta-ergocryptine	1.5:1.0-2.5:1.0	2.0
Residual solvents		
Ethyl acetate	≤890ppm	<70ppm
Ethanol	≤5000ppm	650ppm

Add: Xiasha 571,19TH Street E-COMMERCE 4A601-602,Jiangan Area, Hangzhou, China

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Acetone	≤1000ppm	70ppm
methanol	≤3000ppm	<60ppm
1,4-dioxan	≤380ppm	50ppm
Dichloromelthane	≤600ppm	<40ppm
Assay (HPLC)	97.0-103.0%	99.2%
Conclusion	The products complies with standard USP34	

Hangzhou Dingyan Chem Co.,Ltd.

Quality Control

QUALITY CONTROL:

CHECK: 姚仙娟

INSPECTOR: 刘清风