



Certificate of analysis

Productname: **Desogestrel**

Cas number: 54024-22-5

Molecular Formula: $C_{22}H_{30}O$

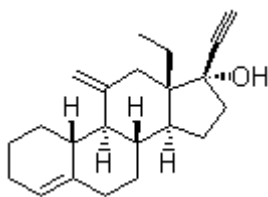
Molecular Weight: 310.48

Date of production: Jan. 11, 2017

Batch NO: 20170111

Exp Date: Jan. 10, 2019

Chemical structure:



Items	Specifications	Results
Appearance	White or almost white, crystalline powder	white crystalline powder
Solubility	Practically insoluble in water, very soluble in methanol, freely soluble in anhydrous ethanol and in methylene chloride	Conforms
Identification	A: IR B: TLC	Conforms
Specific optical rotation	$+53^{\circ} \sim +57^{\circ}$	$+55^{\circ}$
Melting range	$108 \sim 115^{\circ}\text{C}$	$111.5 \sim 113.5^{\circ}\text{C}$
Loss on drying	$\leq 0.5\%$	0.25%
Sulphated ash	$\leq 0.1\%$	Conforms
Related substances	Impurity A no more than 0.2%	0.14%
	Impurity B no more than 0.2%	N.D.
	Impurity C no more than 0.2%	N.D.
	Impurity D no more than 0.1%	N.D.
	Unspecified impurities no more than 0.1%	Conforms
	Total impurities no more than 0.5%	0.28%
Residual Solvents	Methylene chloride $\leq 600\text{ppm}$	Conforms
	n-Hexane $\leq 290\text{ppm}$	Conforms
Assay	98.0~102.0% (on the dried basis)	99.30%
Particle Size	90% $\leq 30 \mu$	Conforms

Conclusion: It complies with the EP7.0

Analyst: Zhao

Checker: Liu

Q.C Director. Fang F