

 HANGZHOU DINGYAN CHEM CO.,LTD

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CERTIFICATE OF ANALYSIS

NO: DYC101607054		
Product name	Galanthamine hydrobromide(USP35)	
CAS Number	1953-04-4	
Molecule Structure	HBr (N	
Molecule Formula	C17H22BrNO3	
Batch number	20160310	
Manuf date	2016-03-10	
Testing date	2016-03-11	

Items	Standard	Result
Appearance	White to almost white powder	almost white powder
Solubility	Soluble in 0.1 N sodium hydroxide, Sparingly soluble in water, very slightly soluble in alcohol, insoluble in n-propanol	Soluble in 0.1 N sodium hydroxide, Sparingly soluble in water, very slightly soluble in alcohol, insoluble in n-propanol
Identification	 IR Complices with the test in the test procedure. HPLC The retention time of the major peak of the sample solution corresponds to that og the system suitability solution, as obtained in the Assay Bromide Meet the requirements of the silver nitrate precipitate test. 	Conforms
Heavy metals	≤20ppm	<20ppm
Loss on drying	\leqslant 0.5%	0.18%
Residue on ignition	\leqslant 0.1%	0.06%
Palladium	≤10ppm	<1ppm
Relatedsubstances(HPLC)		
N-Desmethylgalantamine	\leqslant 0.6%	≪0.05%
O- Desmethylgalantamine	\leqslant 0.20%	N.D
6β -Hexahydrogalantamine	≪0.20%	≤0.05%

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6 β -Octahydrogalantamine	≤0.35%	≤0.05%	
6 α -Hexahydrogalantamine	$\leq 0.20\%$	0.09%	
Tetrahydrogalantamine	$\leq 0.40\%$	≪0.05%	
Narwedine	$\leq 0.15\%$	≪0.05%	
Any unspecified impurity	≤0.10%	≪0.05%	
Total impurities	\leq 1.0%	0.09	
Enantiomeric purity			
4R.8R stereoisomer	≤0.1%	<0.01%	
Access	95.0%-102.0% calaulated on the	99.3%	
Assay	dried dasia	99.5%	
Conclusion	Complies with USP35		

Hangzhou Dingyan Chem Co., Ltd. QUALITON CONTROL: Freyou

CHECK:姚仙娟

INSPECTOR: 刘清风