杭州东瑞医药科技有限公司 HANGZHOU DAWN RAY PHARMACEUTICAL CO.,LTD.

CERTIFICATE OF ANALYSIS

Toremifene citrate

Batch No.: DR20130308	Quantity: 1.0kg
Manufacture Date: 2013.03.08	Expiry Date: 2015.03.07

TESTS:

Items	Specification	Results	
Description	White or like white crystalline powder	White crystalline powder	
Solubility	Freely soluble in pyridine and acetic acid(100),	Freely soluble in pyridine and acetic	
	sparingly soluble in methanol, slightly soluble in	acid(100), sparingly soluble in methanol,	
	ethanol, very slightly soluble in water, and	slightly soluble in ethanol, very slightly	
	practically insoluble in diethyl ether	soluble in water, and practically	
		insoluble in diethyl ether	
Melting point	159~163℃	160.0-161.5℃	
Identification			
(a)Positive reaction	Must comply	Complies	
(b)Positive reaction	Must comply	Complies	
(c) UV	There is the strongest absorption at the wavelength	There is the strongest absorption at the	
	of 234~238nm and 275~278nm.	wavelength of 236.8nm and 275.6nm.	
(d) IR	There is absorption at 1741, 1703, 1585, 1241 and	There is absorption at 1741, 1703, 1585,	
	706cm-1 .	1241 and 706cm-1.	
Purity			
Relative substances	E-isomer≤0.5%	0.001%	
	Other single impurity ≤0.1%	0.05%	
	Total relative substances≤1.0%	0.1%	
Heavy metals	≤10ppm	<10ppm	
Loss on drying	≤0.5%	0.2%	
Toluene	≤0.089%	0.0003%	
Ethanol	≤0.5%	0	
Acetone	≤0.5%	0.25%	
Tetrahydrofuran	≤0.072%	0.0001%	
Chlorobenzen	≤0.036%	0	
Benzene	≤0.0002%	0	
Residue on ignition	≤0.1%	0.02%	
Assay	≥98.5% (Calculated on dry basis)	99.6%	
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Conclusion: The results conform with the standard

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