

**济南健丰化工有限公司**  
**JINAN JIANFENG CHEMICAL CO.LTD.**

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**CERTIFICATE OF ANALYSIS**

<b>Product name : Tamsulosin Hydrochloride</b> <b>Batch No. : 11061203</b> <b>Mfg. date : 2011.06.12</b> <b>Exp.Date : 2013.06.11</b> <b>Approval Date :2011.06.30</b>		
<b>Item of analysis</b>	<b>Standard</b>	<b>Result of analysis</b>
<b>Description</b>	<b>White or almost white powder</b>	<b>Conforms</b>
<b>Solubility test</b>	<b>Should be to match with the standard</b>	<b>Conforms</b>
<b>Identification</b>	<b>Reponds to the test for Chlorides.</b>	<b>Conforms</b>
	<b>By IR, to match with the working standard</b>	<b>Conforms</b>
	<b>Specific optical rotation (17.5~20.5)</b>	<b>-18.5</b>
<b>Related substances</b>	<b>Unspecifiedimpurities: ≤0.1%</b> <b>Sum of impurities: ≤0.2%</b>	<b>Unspecified impurities: 0.04%</b> <b>Sum of impurities: 0.1%</b>
<b>Enantiomeric purity</b>	<b>Impurity ≤0.1%</b>	<b>0.04%</b>
<b>Heavy Metals</b>	<b>&lt; 10 ppm</b>	<b>&lt; 20 ppm</b>
<b>Residue on ignition</b>	<b>0.1%</b>	<b>0.03%</b>
<b>PH Value</b>	<b>4.2~4.5</b>	<b>4.4</b>
<b>Loss on drying</b>	<b>≤0.5%</b>	<b>0.15%</b>
<b>Assay</b>	<b>98.5%~101.0%</b>	<b>99.8%</b>
<b>Conclusion: Conforms to internal specification.</b>		
<b>Exam</b>	<b>Analyst</b>	<b>Checker</b>