



# HANGZHOU THINK CHEMICAL CO., LTD.

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## Certificate of Analysis

<b>Product Name</b>		Ivabradine Hydrochloride	
<b>CAS Registry No.</b>		148849-67-6	<b>Specification No.</b> IH17-02
<b>Batch No.</b>		181001	<b>Quantity</b> 5.5kg
<b>Storage</b>		In an airtight container, protected from light	<b>Mfg. Date</b> Oct.25, 2018
			<b>Rep. Date</b> Oct.28, 2018
			<b>Exp. Date</b> Oct.24, 2020
<b>Sl. No.</b>	<b>Items</b>	<b>Specifications</b>	<b>Results</b>
01	Appearance	White to off-white powder	White powder
02	Purity (HPLC)	Not less than 99.0%	99.87%
03	Max single impurity	Not more than 0.1%	0.05%
04	Total impurities	Not more than 1.0%	0.13%
05	Isomer	Not more than 0.1%	0.05%
06	Loss on Drying	Not more than 1.0%	0.58%
07	Moisture content	Not more than 1.0%	0.11%
08	Residues On Ignition	Not more than 0.2%	0.10%
09	Heavy Metals	Not more than 20ppm	Conforms
10	Specific optical rotation	+6.5° ~ +8.5°	+8.38°

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