



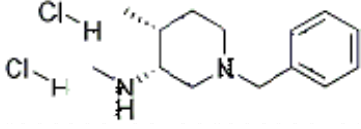
HANGZHOU DINGYAN CHEM CO.,LTD

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## CERTIFICATE OF ANALYSIS

NO: DYC101606301

<b>Product name</b>	(3R,4R)-N,4-Dimethyl-1-(phenylmethyl)-3-piperidinamine. HCl
<b>CAS Number</b>	1062580-52-2
<b>Molecule Structure</b>	
<b>Molecule Formula</b>	C <sub>14</sub> H <sub>24</sub> Cl <sub>2</sub> N <sub>2</sub>
<b>Batch number</b>	20160313
<b>Manuf date</b>	2016-03-13
<b>Testing date</b>	2016-03-15

Analysis tests	Standard	Results
<b>Appearance</b>	White crystalline powder	conforms
<b>H-NMR</b>	Should conform to standard	conforms
<b>HPLC</b>	The retention time of the major peak in the chromatogram of sample corresponds to that in the chromatogram of standard preparation.	conforms
<b>Water by KF</b>	≤0.5%	0.12%
<b>ROI</b>	≤0.5%	0.03%
<b>Purity</b>	≥99.0%	99.53%
<b>RS/SR Isomer impurity</b>	≤0.5%	0.24%
<b>Any individual Impurities</b>	≤0.5%	0.21%
<b>SS Isomer impurity</b>	≤0.5%	0.14%
<b>LOD</b>	≤0.5%	0.05%
<b>Assay</b>	≥98.0%	98.35%
<b>Conclusion</b>	The specification conform with In-House Standard	

Hangzhou Dingyan Chem Co., Ltd.  
QUALITY CONTROL: Freya  
Signature(x)

CHECK: 姚仙娟

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