

# Certificate of Analysis



Product Identification		Chemical Structure
<b>Catalog number</b>	HB0895	
<b>Compound name</b>	Bicuculline methochloride	
<b>Chemical name</b>	[R-(R*,S*)]-5-(6,8-Dihydro-8-oxofuro[3,4-e]-1,3-benzodioxol-6-yl)-5,6,7,8-tetrahydro-6,6-dimethyl-1,3-dioxolo[4,5-g]isoquinolinium chloride	
<b>Batch number</b>	E1863-1-1	
<b>Batch molecular formula</b>	C <sub>21</sub> H <sub>20</sub> ClNO <sub>6</sub> ·1.2H <sub>2</sub> O	
<b>Batch molecular weight</b>	439.46	
Method	QC requirement	QC Result
<b>HPLC</b>	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
<b>NMR</b>	<sup>1</sup> H NMR in DMSO at 400 MHz consistent with structure	Meets specification
<b>Mass spectrum</b>	Electrospray positive analysis consistent with structure	Meets specification
<b>Microanalysis</b>	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
<b>Optical Rotation</b>	Optical rotation is between -100 and -110	[α] <sub>D</sub> = -100 (Concentration = 0.5, Solvent = methanol)
<b>TLC</b>	TLC analysis in 5% MeOH/DCM shows one spot under uv	Meets specification: R <sub>f</sub> =0.1
<b>Physical appearance</b>	Off-white to yellow solid	Meets specification: Off-white solid
<b>Solubility</b>	Soluble in water (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

18-05-22

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.