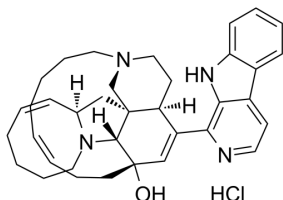


## Certificate of Analysis

<b>Product Name:</b>	Manzamine A (hydrochloride)
<b>Cat. No.:</b>	CS-0179261
<b>CAS No.:</b>	104264-80-4
<b>Batch No.:</b>	149110
<b>Chemical Name:</b>	3H-2,7-[3]Octeno-1H-azocino[1',2':1,5]pyrrolo[2,3-i]isoquinolin-7(7aH)-ol, 4,4a,9,10,11,12,14a,15-octahydro-5-(9H-pyrido[3,4-b]indol-1-yl)-, hydrochloride (1:1), (2S,4aR,7S,7aR,14aR,15aR)

### PHYSICAL AND CHEMICAL PROPERTIES

<b>Molecular Formula:</b>	C <sub>36</sub> H <sub>45</sub> ClN <sub>4</sub> O
<b>Molecular Weight:</b>	585.22
<b>Storage:</b>	2-8°C, sealed storage, away from moisture and light
<b>Chemical Structure:</b>	



### ANALYTICAL DATA

<b>Appearance:</b>	Light yellow to brown (Solid)
<b><sup>1</sup>H NMR Spectrum:</b>	Consistent with structure
<b>MS:</b>	Consistent with structure
<b>Purity (HPLC):</b>	99.29%
<b>Conclusion:</b>	The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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