# TOCRIS a biotechne brand

## **Certificate of Analysis**

### Print Date: Jan 14th 2016

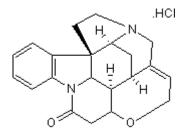
### www.tocris.com

#### Product Name: Strychnine hydrochloride CAS Number:

1421-86-9 **IUPAC Name:** Strychnidin-10-one hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula: Batch Molecular Weight: Physical Appearance:** Solubility: Storage: **Batch Molecular Structure:**  C21H22N2O2.HCI.134H2O 402.39 White solid water to 50 mM Store at RT



### 2. ANALYTICAL DATA

HPLC: <sup>1</sup>H NMR: Mass Spectrum: **Optical Rotation: Microanalysis:** 

Shows 98.1% purity Consistent with structure Consistent with structure  $[\alpha]_{D}$  = -28.6 (Concentration = 0.7, Solvent = Water)

Carbon Hydrogen Nitrogen

Theoretical	62.68	6.64	6.96
Found	62.71	6.62	7.11

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Batch No.: 2

# TOCRIS a biotechne brand

### **Product Information**

### www.tocris.com

Print Date: Jan 14th 2016

#### Product Name: Strychnine hydrochloride

CAS Number: 1421-86-9 **IUPAC Name:** Strychnidin-10-one hydrochloride

### **Description:**

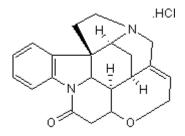
Competitive glycine receptor antagonist; convulsant. Also nicotinic receptor antagonist; displays competitive antagonism at receptors and non-competitive antagonism at α4β2 α7 receptors.

### **Physical and Chemical Properties:**

Batch Molecular Formula: C21H22N2O2.HCI.134H2O Batch Molecular Weight: 402.39 Physical Appearance: White solid

Minimum Purity: >98%

### **Batch Molecular Structure:**



### Storage: Store at RT

Solubility & Usage Info: water to 50 mM

#### Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

### **References:**

Mataubayashi et al (1998) Strychnine: a potent competitive antagonist of α-bungarotoxin-sensitive nicotinic acetylcholine receptors in rat hippocampal neurons. J.Pharmacol.Exp.Ther. 284 904. PMID: 9495848.

Betz et al (2006) Glycine receptors: recent insights into their structural organization and functional diversity. J.Neurochem. 67 1600.

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Catalog No.: 2785 EC Number: 215-826-9

Batch No.: 2