

## Certificate of Analysis

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**Product Name:** Serotonin hydrochloride

**Catalog No.:** 3547

**Batch No.:** 3

CAS Number: 153-98-0

IUPAC Name: 3-(2-Aminoethyl)-1*H*-indol-5-ol hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>10</sub>H<sub>12</sub>N<sub>2</sub>O.HCl.¼H<sub>2</sub>O

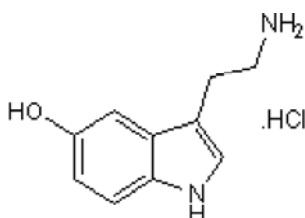
**Batch Molecular Weight:** 217.18

**Physical Appearance:** Beige solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 98.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	55.3	6.27	12.9
Found	55.72	6.19	12.98

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

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IUPAC Name: 3-(2-Aminoethyl)-1*H*-indol-5-ol hydrochloride

**Description:**

Endogenous agonist at 5-HT receptors and endogenous substrate for 5-HT transporters. Neurotransmitter that has roles in regulation of mood, emesis, sexuality, sleep and appetite in vivo. Caged serotonin is also available (Cat.No. 3991).

**Physical and Chemical Properties:**

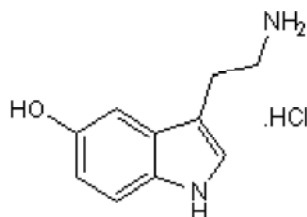
Batch Molecular Formula: C<sub>10</sub>H<sub>12</sub>N<sub>2</sub>O.HCl.¼H<sub>2</sub>O

Batch Molecular Weight: 217.18

Physical Appearance: Beige solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival.

**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:**

**Barnes and Sharp** (1999) A review of central 5-HT receptors and their function. *Neuropharmacology* **38** 1083. PMID: 10462127.

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