

## Certificate of Analysis

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**Product Name:** GABA  
**CAS Number:** 56-12-2  
**IUPAC Name:**  $\gamma$ -Aminobutyric acid

**Catalog No.:** 0344      **Batch No.:** 7  
**EC Number:** 200-258-6

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>4</sub>H<sub>9</sub>NO<sub>2</sub>  
**Batch Molecular Weight:** 103.12  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	46.59	8.8	13.58
Found	46.62	8.8	13.48

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

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## Product Information

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**Product Name:** GABA

CAS Number: 56-12-2

IUPAC Name:  $\gamma$ -Aminobutyric acid

**Catalog No.:** 0344

EC Number: 200-258-6

**Batch No.:** 7

### Description:

GABA is a GABA receptor agonist and endogenous inhibitory neurotransmitter. Caged RuBi GABA is also available (Cat. No. 3400).

### Physical and Chemical Properties:

Batch Molecular Formula: C<sub>4</sub>H<sub>9</sub>NO<sub>2</sub>

Batch Molecular Weight: 103.12

Physical Appearance: White solid

### Batch Molecular Structure:



**Storage:** Store at RT

### Solubility & Usage Info:

water to 100 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:

**Johnston** (1996) GABA<sub>C</sub> receptors: relatively simple transmitter-gated ion channels? *TiPS* **17** 319. PMID: 8885697.

**Malcangio and Bowery** (1996) GABA and its receptors in the spinal cord. *TiPS* **17** 457. PMID: 9014500.

**Decavel and van den Pol** (1990) GABA: a dominant transmitter in the hypothalamus. *J.Comp.Neurol.* **302** 1019. PMID: 2081813.

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