

Certificate of Analysis

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Product Name: GABA
CAS Number: 56-12-2
IUPAC Name: γ -Aminobutyric acid

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄H₉NO₂
Batch Molecular Weight: 103.12
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.59	8.8	13.58
Found	46.53	8.55	13.52

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

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Product Name: GABA

Catalog No.: 0344

Batch No.: 6

CAS Number: 56-12-2

EC Number: 200-258-6

IUPAC Name: γ -Aminobutyric acid

Description:

Endogenous inhibitory neurotransmitter. Caged RuBi GABA is also available (Cat. No. 3400).

Physical and Chemical Properties:

Batch Molecular Formula: C₄H₉NO₂

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_C 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.

Curtis et al (1970) GABA, bicuculline and central inhibition. *Nature* **226** 1222. PMID: 4393081.

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