

# Certificate of Analysis

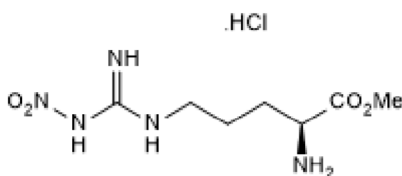
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**Product Name:** L-NAME hydrochloride  
**CAS Number:** 51298-62-5  
**IUPAC Name:** NG-Nitro-L-arginine methyl ester hydrochloride

**Catalog No.:** 0665 **Batch No.:** 11  
**EC Number:** 257-116-1

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>7</sub>H<sub>15</sub>N<sub>5</sub>O<sub>4</sub>.HCl  
**Batch Molecular Weight:** 269.69  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
DMSO 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  
**Optical Rotation:** [α]<sub>D</sub> = +14.3 (Concentration = 3, Solvent = Methanol)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	31.18	5.98	25.97	13.15
Found	31.21	5.86	26.12	12.65

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## Product Information

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**Catalog No.:** 0665

**Batch No.:** 11

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### Description:

L-NAME hydrochloride is a NO synthase inhibitor.

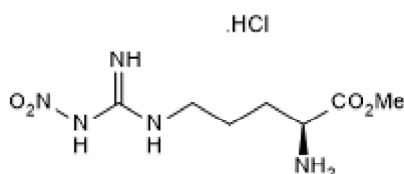
### Physical and Chemical Properties:

Batch Molecular Formula: C<sub>7</sub>H<sub>15</sub>N<sub>5</sub>O<sub>4</sub>.HCl

Batch Molecular Weight: 269.69

Physical Appearance: White solid

### Batch Molecular Structure:



**Storage:** Store at RT

### Solubility & Usage Info:

water to 100 mM

DMSO 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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:

**Moore and Handy** (1997) Selective inhibitors of neuronal nitric oxide synthase - is no NOS really good NOS for the nervous system? *TiPS* **18** 204. PMID: 9226999.

**Pfeiffer et al** (1996) Inhibition of nitric oxide synthesis by N<sup>G</sup>-nitro-L-arginine methyl ester (L-NAME): requirement for bioactivation to the free acid, N<sup>G</sup>-nitro-L-arginine. *Br.J.Pharmacol.* **118** 1433. PMID: 8832069.

**Knowles et al** (1994) Nitric oxide synthases in mammals. *Biochem.J.* **298** 249. PMID: 7510950.

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