Print Date: Aug 17th 2018

Certificate of Analysis

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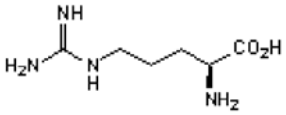
Product Name: **L-Arginine** **Catalog No.: 0663** **Batch No.: 1**

CAS Number: 74-79-3 EC Number: 200-811-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_6H_{14}N_4O_2$
Batch Molecular Weight:	174.2
Physical Appearance:	White solid
Solubility:	water to 100 mM
Storage:	Store at RT
Batch Molecular Structure:	

2. ANALYTICAL DATA

Melting Point:	At 240°C(Dec)
^{1}H NMR:	Consistent with structure

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

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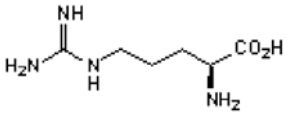
Product Name: **L-Arginine**
Catalog No.: 0663 **Batch No.: 1**
CAS Number: 74-79-3
EC Number: 200-811-1

Description:
Precursor in the formation of nitric oxide.

Physical and Chemical Properties:
Batch Molecular Formula: $C_6H_{14}N_4O_2$
Batch Molecular Weight: 174.2
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:
Schmidt *et al* (1992) Insulin secretion from pancreatic B cells caused by L-arginine-derived nitrogen oxides. Science ***255*** 721. PMID: 1371193.

Palmer *et al* (1988) Vascular endothelial cells synthesise NO from L-arginine. Nature ***333*** 664. PMID: 3131684.