

## ■ L-Arginine

### Introduction

Product properties: L-Arginine Base is in the shape of white crystal or white crystalline powder. It is an essential amino acid for infants and young children. With certain detoxification function, it abounds in protamine and is widely used. In humans, arginine is classified as a semiessential or conditionally essential amino acid, depending on the developmental stage and health status of the individual. Preterm infants are unable to synthesize or create arginine internally, making the amino acid nutritionally essential for them. Most healthy people do not need to supplement with arginine because it is a component of all protein-containing foods and can be synthesized in the body from glutamine via citrulline. L-Arginine is generally recognized as safe (GRAS-status) at intakes of up to 20 grams per day.

Functions: Arginine plays an important role in cell division, wound healing, removing ammonia from the body, immune function, and the release of hormones. It is a precursor for the synthesis of nitric oxide (NO), making it important in the regulation of blood pressure.

1. Several small studies show that increasing intake of foods high in L-Arginine may help ease symptoms, increase exercise tolerance, and improve blood vessel function in people with angina.

2. L-Arginine may benefit men with erectile dysfunction.

3. L-Arginine may improve cardiac performance in people with congestive heart failure

4. L-Arginine may be effective for managing inflammation of the bladder, relieving leg cramping and weakness caused by blocked arteries (a condition known as intermittent claudication), and improving kidney function in kidney transplant patients taking cyclosporine.

### Ingredient

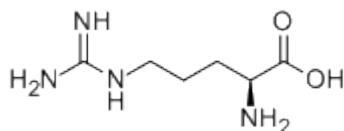
Product Name L-Arginine

CAS 74-79-3

MF C<sub>6</sub>H<sub>14</sub>N<sub>4</sub>O<sub>2</sub>

MW 174.2

MS



### Item and Standard

ITEM	UNIT	STANDARD
Appearance		White crystalline powder
Identification		Infrared spectroscopy

Assay	%	≥98%–101.5%
Specific Rotation [α] <sub>D20</sub> °		+26° – +27.9°
PH		10.0–12.0
Clarification&Color		Clear, colorless
Chloride(Cl)	%	≤0.1%
Arsenic(As)	%	≤0.0002%
Lead(Pb)	%	≤0.001%
Loss on Drying	%	≤1.0%
Residue on Ignition	%	≤0.2%
Aerobic Bacteria		≤1000cfu/g
Yeast& Mold		≤100cfu/g
E.Coli		Negative

## Application

1. Some people also use L-Arginine to boost the immune system, improve athletic performance, and shorten recovery time after surgery. L-Arginine is also used for bodybuilding.
2. As a nutritional supplement; flavoring agent. For adult non-essential amino acids, but the body produce slower, as the essential amino acids for infants and young children.



## Packaging

25KG

## Storage

Please reading safety data sheet before carrying or using the product.  
Cool and dry, keep tightly closed, quality guarantee period is two years.