

TECHNICAL DATA SHEET

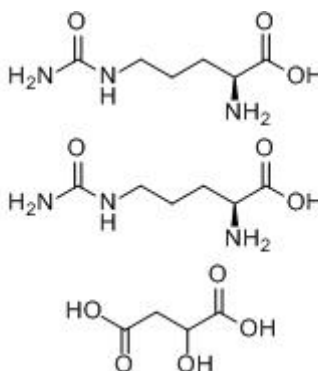
L-Citrulline DI-Malate 2:1

Chemical Properties

Chemical Formula: $C_{16}H_{32}N_6O_{11}$

Molecular Weight: 309.27

CAS: 54940-97-5



Description

L-Citrulline DI-Malate 2:1 is an essential component of the urea cycle, helps detoxify ammonia, and metabolizes to form Arginine, which is very important for nitric oxide production for endothelial and cardiovascular support. Acid taste, slightly soluble in water. Practically insoluble in ether or ethanol.

Solubility

It is slightly soluble in water. Practically insoluble in ether or ethanol.

Specification

Item	Specification	Test Method
Appearance	White crystals or crystalline Powder.	Visual
Assay	Min 98.5%	HPLC
L-Citrulline	62.5%~74.2%	HPLC
DL-Malate	25.8%~37.5%	HPLC
Specific rotation $[\alpha]_D^{20}$	+16.5°~+18.5°	CHP2015
Loss on drying	Max 0.30%	CHP2015
Residue on ignition	Max 0.10%	CHP2015
Sulfate	Max 0.02%	CHP2015
Chloride	Max 0.05%	CHP2015
Heavy metals(Pb)	Max 10ppm	CHP2015
Pb	Max 3ppm	GB/T5009.15-2003 I
Iron	Max 10ppm	CHP2015
Arsenic	Max 1ppm	CHP2015
Cd	Max 1ppm	GB/T5009.15-2003 I
Hg	Max 1ppm	GB/T5009.15-2003 I
Total plate count	Max 1000 CFU/g	CHP2015
Total yeast & mold	Max 100 CFU/g	CHP2015

E. Coli Negative
Salmonella Negative

CHP2015
CHP2015

Ingredients

Pure L-Citrulline DI-Malate 2:1.

Labeling

In the United States and the European Union: L-Citrulline DI-Malate.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

Handling recommendations

Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry area away from incompatible substances. Keep under an argon blanket.

Packaging, Storage & Shelf Life

Package 25kg/drum; or in accordance with the customer 's requirements.
Storage Store in a well-closed container away from moisture and direct sunlight.
Shelf Life 2 years if sealed and stored properly.