CERTIFICATE OF ANALYSIS

L-ARGININE, *INJECTION GRADE*

Catalogue no.: 550-002-**

Lot no.: 550002020

Expiration date: 09/2025

MSDS: Available upon request

Shipping: Ambient

Storage: Store at room temperature

CAS: 74-79-3

MW: 174.20

Formula: $C_6H_{14}N_4O_2$

TESTS	SPECIFICATIONS	UNITS	RESULTS
Specific rotation	+26.9-27.9	º	+27.0
State of solution	Clear and colorless		Clear and colorless
(transmittance)	≤ 98.0	%	99.4
Chloride	≤ 0.02	%	<0.01
Ammonium	≤ 0.02	%	<0.02
Sulfate	≤ 0.02	%	<0.01
Iron	≤ 10	ppm	<10
Heavy metals	≤ 10	ppm	<10
Arsenic	≤ 1	ppm	<1
Loss on drying	≤ 0.20	%	<0.20
Residue on ignition	≤ 0.10	%	<0.1
pH	10.5-12.0		11.3

ADDITIONAL INFORMATION:

STABILITY: This liquid media has a data supporting a shelf life of 36 months when properly stored.

PREPARATION: Follow the protocol for powder hydration.

ADDITIONAL INFORMATION: This material does not contain, nor is derived from Specified Risk materials as defined in Commission decision 97/534/EC.

THIS PRODUCT IS INTENDED FOR RESEARCH USE ONLY. IT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.