

Shanghai yuanye Bio-Technology Co., Ltd

465 Changta Road, SongJiang District, Shanghai 201604, China

## Certificate of Analysis

Date of Testing: 2026-03-18 09:16:08

Date of Next Testing: 2030-03-17 09:16:08

Product Name: **L-Arginine**

CAS Number: 74-79-3

Specifications & Purity: Animal Free, Low Endotoxin, for cell culture, ≥99%

Lot #: C2611146

SKU #: **V32816**

Version: **0**

Analysis #: **677323**

Storage Temperature: Room temperature, Argon charged

| Parameter                                             | Limit Values                                  | Result                                        |
|-------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Specific Rotation [α] <sub>20</sub> /D(c=8 in 6M HCl) | 26.3-27.9 (°)                                 | 27.50 °                                       |
| Purity (dry basis)                                    | 98.5-101 (%)                                  | 100.20 %                                      |
| Loss on drying                                        | 0-0.5 (%)                                     | 0.12 %                                        |
| Endotoxin Level                                       | 0-1 (EU/mg)                                   | 0.52000 EU/mg                                 |
| Total Plate Count                                     | 0-1000(CFU/g)                                 | 10.32000 cfu/g                                |
| pH                                                    | 10.5-12                                       | 11.00                                         |
| Chloride (Cl <sup>-</sup> )                           | 0-0.05 (%)                                    | 0.02 %                                        |
| Iron(Fe)                                              | 0-30 (ppm)                                    | 10.00 ppm                                     |
| Heavy metals                                          | 0-10 (ppm)                                    | 10.00 ppm                                     |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> )               | 0-0.03 (%)                                    | 0.02 %                                        |
| Ignition Residue                                      | 0-0.3 (%)                                     | 0.02 %                                        |
| Ammonia (NH <sub>4</sub> )                            | 0-0.02 (%)                                    | 0.02 %                                        |
| Infrared spectrum                                     | Conforms to Structure                         | Conforms to Structure                         |
| Origin( Non-Animal Source)                            | pass                                          | Pass                                          |
| Cell Culture Test                                     | pass                                          | Pass                                          |
| Solubility, 1g/5ml water                              | Clear colorless                               | Pass                                          |
| Ninhydrin-positive substances (other amino acids)     | Conforms                                      | Conforms                                      |
| Residual solvents                                     | complies                                      | complies                                      |
| Appearance(V32816)                                    | White crystalline powder or powder to crystal | White crystalline powder or powder to crystal |

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