



## CERTIFICATE OF ANALYSIS

Product : **L-ARGININE**  
Product number : A0704  
Batch number : 018827  
Date of manufacturing : 30-09-2024  
Date of analysis : 30-09-2024  
Date of expiry : 30-09-2027  
  
Packaging and storage : store in a well-closed container, protected from light

|                               | SPECIFICATION   | RESULT     | UNITS | REMARKS     |
|-------------------------------|---|------------|-------|-------------|
| Appearance                    | white or almost white crystalline powder or colourless crystals | complies   |       | hygroscopic |
| Identification                | conform   | complies   |       |             |
| Solubility                    | freely soluble in water   | complies   |       |             |
| Appearance of solution        | clear and $\leq$ ref. sol. BY <sub>6</sub>                      | complies   |       |             |
| Specific optical rotation     | +25.5 – +28.5   | complies   | °     |             |
| Ninhydrin-positive substances | amino acid analysis : complies                                  | complies   |       |             |
| Chloride                      | $\leq 200$  | complies   | ppm   |             |
| Sulfate                       | $\leq 300$  | $\leq 200$ | ppm   |             |
| Ammonium                      | $\leq 0.02$   | complies   | %     |             |
| Iron                          | $\leq 10$   | complies   | ppm   |             |
| Loss on drying                | $\leq 0.5$  | 0.19       | %     |             |
| Sulphated ash                 | $\leq 0.1$  | 0.01       | %     |             |
| Assay                         | 98.5 – 101.0  | 99.9       | %     |             |

This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

Date: 14-10-2024

S. Bayat, MSc, pharmacist

Department of Quality Control Duchefa B.V.

The buyer is responsible to test each batch to ensure the product is suitable for its specific purpose.

