

CERTIFICATE OF ANALYSIS

Product

L-LYSINE HCL

Product number Batch number

L0714

Date of analysis

010947 xx-01-2015

Retest date

31-01-2018

Packaging and storage

store at room temperature in a well closed container

| Appearance Solubility | SPECIFICATION white crystalline powder soluble in water | RESULT complies | UNITS | REMARKS |
|---------------------------|---|-----------------|-------|-----------|
| Specific optical rotation | +21.0 - +22.5 | +21.06 | 0 | |
| Arsenic | conform | < 1 | ppm | |
| Loss on drying | ≤ 0.5 | 0.23 | % | |
| Residue on ignition | conform | 0.05 | % | |
| Sulfate | conform | < 0.02 | % | |
| Iron | conform | < 10 | ppm | |
| Ammonium | conform | < 0.02 | % | as Pb |
| Melthyene Chloride | conform | 10.36 | % | |
| Assay | ≥ 98.5 | 99.6 | % | titration |

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

Conclusion: approved

Released by:

drs. M. van Wissen, pharmacist

Department of Quality Control Duchefa B.V.

Date: 07-01-2015

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

telephone: +31(0)23 - 531 90 93 iban: NL54 INGB 0651 4661 80 k.v.k. in Amsterdam: 34073001 mail address: Postbus 809 - 2003 RV Haarlem - The Netherlands visiting address: A. Hofmanweg 71 - 2031 BH Haarlem +31(0)23 - 531 80 27 bic: INGBNL2A

info@duchefa.nl

website: www.duchefa.com