



## Scharlab S.L.

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### CERTIFICATE OF ANALYSIS

Product: **L-Arginine**, extra pure, Pharmapur<sup>®</sup>, Ph Eur, BP,  
**AR0120** USP

Batch 18480701  
Quality release date 13/11/2017  
Expiry date 11/2020

| Analysis                                                               | Batch value | Specifications      |
|------------------------------------------------------------------------|-------------|---------------------|
| assay (titr. with HClO <sub>4</sub> , referred to dried sample)        | 100,18 %    | 98,5 - 101 %        |
| identification                                                         | passes test | passes test         |
| specific rotation ((a) 20 °/D, c = 8, HCl 6N)                          | + 26,8 °    | + 26,3 ° - + 27,7 ° |
| appearance of solution                                                 | passes test | passes test         |
| chlorides (Cl)                                                         | 0,020 %     | max. 0,02 %         |
| sulfates (SO <sub>4</sub> )                                            | 0,030 %     | max. 0,03 %         |
| ammonium (NH <sub>4</sub> )                                            | 0,020 %     | max. 0,02 %         |
| heavy metals (as Pb)                                                   | 0,0010 %    | max. 0,001 %        |
| iron (Fe)                                                              | 0,0010 %    | max. 0,001 %        |
| ninhydrin-positive substances                                          | passes test | passes test         |
| residue on ignition                                                    | 0,1 %       | max. 0,1 %          |
| loss on drying (105 °C)                                                | 0,12 %      | max. 0,5 %          |
| Residual solvents are analysed according to guideline CPMP/ICH/283/95. |             |                     |

This certificate does not release the user from their control upon receipt of the goods  
You can get a copy of any of our COA from our web site: [www.scharlab.com](http://www.scharlab.com)

M. Canet  
Laboratory Manager