

**QUALITY CERTIFICATE**

Product name: L(+)-LACTIC ACID 90 %  
Quality: Ph.Eur.10.0.  
Package: 250 g  
Formula: C<sub>3</sub>H<sub>6</sub>O<sub>3</sub>  
Rel. mol. weight: 90,08  
Lot No.: FW9254675  
Manufacturing date: 10.2022.  
Expiry date: 31.10.2025. (DMY)  
Anal. No.: 13344H54675

|   | <b>REQUIRED</b>                                    | <b>MEASURED</b>                                    |
|---|--|--|
| Appearance:                               | colourless or slightly yellowish, thick liquid     | colourless, thick liquid                           |
| Assay                                     | 88,0-92,0 %  | 91,07 %  |
| Identification test 'A'                   | identical  | identical  |
| Identification test 'C'                   | identical  | identical  |
| Density (d <sub>20</sub> <sup>20</sup> )  | 1,20-1,21 g/cm <sup>3</sup>                        | 1,2063 g/cm <sup>3</sup>                           |
| Solubility                                | miscible with water and with ethanol (96 per cent) | miscible with water and with ethanol (96 per cent) |
| Colour                                    | max.Y6   | passes test  |
| Insoluble in ether                        | passes test  | passes test  |
| Sugars, reducing substances               | passes test  | passes test  |
| Citric acid, oxalic acid, phosphoric acid | passes test  | passes test  |
| Sulfate                                   | max.200 ppm  | <200 ppm   |
| Calcium (Ca)                              | max.200 ppm  | <200 ppm   |
| Heavy metals (Pb)                         | max.10 ppm   | <10 ppm  |
| Sulphated ash                             | max.0,1 %  | 0,0498 %   |

**The Product complies with the requirements of Ph.Eur.10.0.**

Kiállítva: Halásztelek, 2022.12.08.

*Magyar István*  
minőségbiztosítási vezető

helyettes

