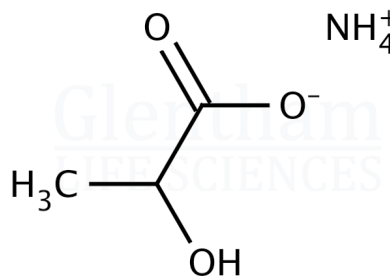


## Certificate of Analysis

|                   |                                                         |
|-------------------|---------------------------------------------------------|
| Product Name      | Ammonium L-lactate                                      |
| Glentham Code     | GC2144                                                  |
| CAS Number        | 515-98-0                                                |
| MDL Number        | MFCD00036411                                            |
| PubChem SID       | 310266789                                               |
| Batch Number      | 690PZV                                                  |
| Molecular Weight  | 107.11                                                  |
| Molecular Formula | $\text{CH}_3\text{CH}(\text{OH})\text{CO}_2\text{NH}_4$ |
| Storage Temp.     | +20°C                                                   |



| Property                    | Specification                           | Batch 690PZV |
|-----------------------------|-----------------------------------------|--------------|
| Physical Description        | Clear, colourless to pale yellow liquid | Conforms     |
| Colour (APHA)               | ≤ 50                                    | 22           |
| pH                          | 4.0 - 5.5                               | 4.7          |
| Density (20°C)              | 1.16 - 1.19 g/cm <sup>3</sup>           | Conforms     |
| Chloride (Cl)               | ≤ 50ppm                                 | Conforms     |
| Sulphate (SO <sub>4</sub> ) | ≤ 50ppm                                 | Conforms     |
| Iron (Fe)                   | ≤ 25ppm                                 | Conforms     |
| Heavy Metals                | ≤ 10ppm                                 | Conforms     |
| Water                       | 28 - 34 %                               | 31%          |
| Stereochemical Purity       | ≥ 95% (L-isomer)                        | Conforms     |
| Assay                       | 58 - 64 % (as Lactic acid)              | 62%          |

|                       |            |
|-----------------------|------------|
| Specification Version | v1.1       |
| Manufacture Date      | 2018-01-19 |
| Re-Test Date          | 2025-04-25 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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