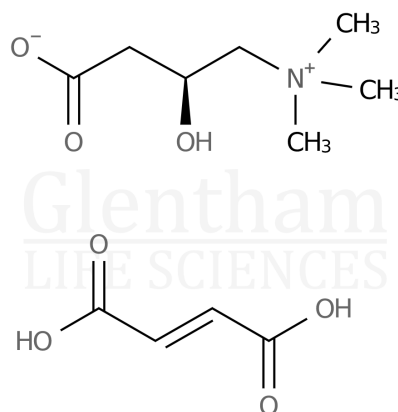


## Product Specification

|                    |                      |
|--------------------|----------------------|
| Product Name       | L-Carnitine fumarate |
| Glentham Code      | GX6145               |
| CAS Number         | 90471-79-7           |
| EINECS             | 291-749-4            |
| Numéro MDL         | MFCD01631178         |
| CAS supplémentaire | 541-15-1             |

|                   |                                    |
|-------------------|------------------------------------|
| Molecular Weight  | 277.27                             |
| Molecular Formula | $C_{15}H_{25}NO_7 \cdot C_4H_4O_4$ |
| Storage Temp.     | +20°C                              |



| Property                  | Specification                                            |
|---------------------------|----------------------------------------------------------|
| Physical Description      | White crystalline powder                                 |
| Solubility (5% in water)  | Clear, colourless solution                               |
| pH                        | 3.0 - 4.0                                                |
| Specific Optical Rotation | -18.5 - -16.5 °                                          |
| Residue on Ignition       | ≤ 0.5%                                                   |
| Heavy Metals              | ≤ 10ppm                                                  |
| Cadmium (Cd)              | ≤ 1ppm                                                   |
| Lead (Pb)                 | ≤ 3ppm                                                   |
| Mercury (Hg)              | ≤ 0.1ppm                                                 |
| Arsenic (As)              | ≤ 1ppm                                                   |
| Water                     | ≤ 1.0%                                                   |
| D-Enantiomer              | ≤ 1.0%                                                   |
| L-Carnitine Content       | 56.5 - 60.5 %                                            |
| Assay                     | 97.5 - 102.5 % (L-Carnitine + Fumaric acid, dried basis) |

|                       |              |
|-----------------------|--------------|
| Specification Version | - v1.0       |
| Date Created          | - 2017-03-21 |

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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