

## Certificate of Analysis

### L-Carnitine Base

|             |                |                  |              |
|-------------|----------------|------------------|--------------|
| CAS No.     | 541-15-1       | Code             | BIOJLCA001   |
| Batch No    | 10100120260155 | Manufacture Date | Jan.11, 2026 |
| Retest Date | Jan.10, 2028   | Quantity         | 25Kgs        |

| Testing Items          | Specifications                        | Results                  |
|------------------------|---------------------------------------|--------------------------|
| Appearance             | White crystals or crystalline powder  | White crystalline powder |
| Identification         | IR                                    | Positive                 |
| Appearance of solution | Clear and Colourless                  | Clear and Colourless     |
| Specific rotation      | -29° to -32°                          | -31.30°                  |
| pH                     | 5.5~9.5                               | 6.92                     |
| Loss on drying         | Not more than 0.5%                    | 0.26%                    |
| Assay                  | 97.0%~103.0%                          | 99.46%                   |
| Residue on ignition    | Not more than 0.1%                    | 0.05%                    |
| D-Carnitine            | Not more than 0.2%                    | 0.12%                    |
| Residual solvent       | Ethanol: ≤5000ppm                     | Conforms                 |
| Heavy metals           | Not more than 10ppm                   | Less than 10ppm          |
| Arsenic                | Not more than 1ppm                    | Less than 1ppm           |
| Chloride               | Not more than 0.4%                    | Less than 0.4%           |
| Potassium              | Not more than 0.2%                    | Less than 0.2%           |
| Sodium                 | Not more than 0.1%                    | Less than 0.1%           |
| Cyanide                | Absent                                | Absent                   |
| Lead                   | Not more than 3ppm                    | Less than 3ppm           |
| Mercury                | Not more than 0.1ppm                  | Less than 0.1ppm         |
| Cadmium                | Not more than 1ppm                    | Less than 1ppm           |
| Total plate count      | Not more than 1000cfu/g               | 30cfu/g                  |
| Yeast & Mold           | Not more than 100cfu/g                | 10cfu/g                  |
| E. Coli                | Negative                              | Negative                 |
| Salmonella             | Negative                              | Negative                 |
| Conclusion             | This product conforms to USP standard |                          |

**\*Storage condition: Store below 25°C, Protect from moisture and light.**