

# Specification of L-carnitine

Product: L-carnitine

Type: Food Grade

Package: 25KG Drum

| Check Item                 | Specification   | Method    |
|----------------------------|---|-----------|
| <b>Identification</b>      | In accordance with the IR absorption spectrum of the standard | IR        |
| <b>Appearance</b>          | White Crystals or White Crystalline Powder                    | Visual    |
| <b>Specific rotation</b>   | -29.0~-32.0°  | USP       |
| <b>PH</b>                  | 5.5~9.5   | USP       |
| <b>Water</b>               | ≤4.0%   | USP       |
| <b>Residue on ignition</b> | ≤0.5%   | USP       |
| <b>Residual solvents</b>   | ≤0.5%   | USP       |
| <b>Sodium</b>              | ≤0.1%   | USP       |
| <b>Potassium</b>           | ≤0.2%   | USP       |
| <b>Chloride</b>            | ≤0.4%   | USP       |
| <b>Cyanide</b>             | Non detectable  | Ch.P.     |
| <b>Heavy metal</b>         | ≤10ppm  | USP       |
| <b>Arsenic (As)</b>        | ≤1ppm   | USP       |
| <b>Lead (Pb)</b>           | ≤3ppm   | USP       |
| <b>Cadmium (Cd)</b>        | ≤1ppm   | USP       |
| <b>Mercury (Hg)</b>        | ≤0.1ppm   | USP       |
| <b>TPC</b>                 | ≤1000Cfu/g  | USP       |
| <b>Yeast &amp; Mold</b>    | ≤ 100Cfu/g  | USP       |
| <b>E.Coli</b>              | Negative  | USP       |
| <b>Salmonella</b>          | Negative  | USP       |
| <b>Assay</b>               | 98.0~102.0%   | Titration |
| <b>bulk density</b>        | 0.3-0.6g/ml   | Physical  |
| <b>Tapped density</b>      | 0.5-0.8g/ml   | Physical  |

Shelf Life: 24 months

Meet USP standard