

Certificate of Analysis

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| Product Name | L-carnitine Base | Check Foundation | USP 40 |
| Batch Quantity | 1000kgs | Batch No | LCB20051701 |
| Package | 25kg/drum | Manufacturing Date | Dec 17, 2021 |
| Checking Date | Dec 26 , 2021 | Retesting Date | Dec 16, 2023 |

| Check Item | Specification | Method | Check Results |
|---------------------|--|-----------|----------------|
| Identification | IR | USP | Conform |
| Appearance | White Crystals or White Crystalline Powder | Visual | Conform |
| Specific rotation | -29.0~-32.0° | USP | -30.9° |
| PH | 5.5~9.5 | USP | 7.0 |
| Water | ≤1.0% | USP | 0.16% |
| Residue on ignition | ≤0.5% | USP | 0.02% |
| Residual solvents | ≤0.5% | USP | Conform |
| Sodium | ≤0.1% | USP | <0.1% |
| Potassium | ≤0.2% | USP | <0.2% |
| Chloride | ≤0.4% | USP | <0.4% |
| Cyanide | Non detectable | Ch.P. | Non detectable |
| Heavy metal | ≤10ppm | USP | <10ppm |
| Arsenic (As) | ≤1ppm | USP | <1ppm |
| Lead (Pb) | ≤3ppm | USP | <3ppm |
| Cadmium (Cd) | ≤1ppm | USP | <1ppm |
| Mercury (Hg) | ≤0.1ppm | USP | <0.1ppm |
| TPC | ≤1000Cfu/g | USP | < 10Cfu/g |
| Yeast & Mold | ≤ 100Cfu/g | USP | < 10Cfu/g |
| E.Coli | Negative | USP | Non detectable |
| Salmonella | Negative | USP | Non detectable |
| Assay | 98.0~102.0% | Titration | 99.5% |
| bulk density | 0.3-0.6g/ml | Physical | Conform |
| Tapped density | 0.5-0.8g/ml | Physical | Conform |
| Conclusion: | Comply with USP 40 | | |
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