

Certificate of Analysis

| Product Name: | Oxiracetam | Batch Number: | Varies |
|--------------------|-------------------|-------------------|--------|
| CAS No. | 62613-82-5 | Manufacture Date: | Varies |
| Molecular Formula: | $C_6H_{10}N_2O_3$ | Expiry Date: | Varies |

| IDENTIFICATION | | SPECIFICATION | RESULT |
|----------------|--|---|-----------------------------|
| Purity | | ≥ 99% | 99.22 - 99.86% |
| Physical | Appearance | White crystalline powder | Complies |
| | Melting point | 166°C - 170°C | 166.9°C ~ 169°C |
| | Loss on drying | ≤ 0.5% | 0.21 - 0.3% |
| | Related Substances (HPLC) | Largest single impurity ≤ 0.5% Total impurity ≤ 1.0% | 0.11 - 0.23% 0.14 - 0.8% |
| | Transmittance of 1% aqueous solution at 470 nm | ≥ 99% | 99.3 - 99.6% |
| | Residue on ignition | ≤ 0.1% | 0.03 - 0.06% |
| | Residue of solvents | ≤ 600 ppm | Complies |
| Chemical | Chlorides | ≤ 50 ppm | Complies |
| | Ammonium ion | ≤ 10 ppm | Complies |
| | Heavy metals | ≤ 10 - 20 ppm | Complies |

| Else | Storage condition | Sealed, kept in shady and dry place | |
|------|-------------------|-------------------------------------|--|
| | Shelf life | Three years | |

