

## Certificate of Analysis

**Product:** Aniracetam  
**CAS No.:** 72432-10-1  
**Code:** 188903  
**Mol. Formula:** C<sub>12</sub>H<sub>13</sub>NO<sub>3</sub>  
**Mol. Weight:** 219.24

| Item                    | Specifications           | Results       |
|-------------------------|--------------------------|---------------|
| Assay                   | 98.0~102.0%              | 99.39%        |
| Appearance              | White crystalline powder | Complies      |
| Clarity of the solution | Clear and colorless      | Complies      |
| Melting point           | 119-122°C                | 120.1-122.0°C |
| Chlorides               | 0.014%                   | Complies      |
| Sulfates                | 0.04%                    | Complies      |
| Absorbance              | 476-506                  | 474           |
| Loss on drying          | ≤0.5%                    | 0.23%         |
| Related substances      | ≤1.0%                    | 0.20%         |
| Sulfated ash            | ≤ 0.1%                   | 0.05%         |
| Heavy metals (as Pb)    | ≤20ppm                   | <20ppm        |
| Conclusion              | Complies                 |               |