

# SHANGHAI WENTAI BIO TECHNOLOGY CO.,LTD

## CERTIFICATION OF ANALYSIS

Product Name: L-Arginine- $\alpha$ -ketoglutarate 2:1

Manufacture Date: 2023.04.29

Batch No.: 20230436

Quantity: 1000KGS

Report Date: 2023.04.30

Expiry Date: 2025.04.28

| Articles   | Specifications                    | Results                           |
|--|-----------------------------------|-----------------------------------|
| Appearance   | White to yellow crystalline power | White to yellow crystalline power |
| Assay  | 98.0%-102.0%                      | 100.87%                           |
| Assay of L-Arginine                                | 65.5%-69.0%                       | 67.14%                            |
| Assay of $\alpha$ -ketoglutarate                   | 26.5-29.0%                        | 27.43%                            |
| Specific optical rotation [a]<br>(8g/100ml 6N HCL) | +16.5° ~ +18.5°                   | +18.1°                            |
| pH(10/%H2O)  | 5.5-7.0                           | 6.0                               |
| Hydrate  | ≤6.8%                             | 6.3%                              |
| Chloride   | ≤0.05%                            | 0.03%                             |
| Loss on drying                                     | ≤1.0%                             | 0.25%                             |
| Residue on ignition                                | ≤0.2%                             | 0.10%                             |
| Heavy metals(as Pb)                                | ≤10ppm                            | < 10ppm                           |
| Pb   | ≤1ppm                             | < 1ppm                            |
| Iron   | ≤10ppm                            | < 10ppm                           |
| Arsenic(AS2O3)                                     | ≤1ppm                             | < 1ppm                            |
| Cadmium  | ≤1ppm                             | < 1ppm                            |
| Mercury  | ≤1ppm                             | < 1ppm                            |
| Bulk density (g/ml)                                | ≥0.5                              | 0.53                              |
| Particle Size                                      | Thus30                            | 100%                              |
| Total plate count(cfu/g)                           | ≤100cfu/g                         | conforms                          |
| Yeast(cfu/g)                                       | ≤100cfu/g                         | conforms                          |
| Mold(cfu/g)  | ≤100cfu/g                         | conforms                          |
| Salmonella(cfu/g)                                  | Negative                          | Negative                          |
| E.coli (cfu/g)                                     | Negative                          | Negative                          |
| Staphylococcus Aureus (cfu/g)                      | Negative                          | Negative                          |
| Melamine and Melamine derivatives                  | Free                              | Free                              |

Conclusion: The test result of the above mentioned product meets house standard

Analysis: chenhong



Verification: zhaoyan