



Specialized in chemicals

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## Certificate of Analysis

|                                      |                           |                           |
|--------------------------------------|---------------------------|---------------------------|
| Product Name: L-Tyrosine             | Quantity:500kgs           | Batch No:TNJ2015090426    |
| Producing date: 2015.04.25           | Sampling date: 2015.04.25 | Send out date: 2015.04.26 |
| Reference standard: USP26            | Package:25kg/drum         | Expiry date: 2017.04.24   |
| Item                                 | Specifications            | Results                   |
| Assay ,% min                         | 98.5~101.5                | 99.4                      |
| PH                                   | 5.0~6.5                   | 6.27                      |
| Speciific rotation $[\alpha]_D^{20}$ | -9.8° to-11.2°            | -10.4°                    |
| Tansmittance,% min                   | 98.0                      | 98.5                      |
| Loss on drying,% max                 | 0.30                      | 0.19                      |
| Residue on ignition,% max            | <0.4                      | 0.09                      |
| Chloride (as Cl),% max               | 0.04                      | <0.04                     |
| Sulphate(as SO <sub>4</sub> ),% max  | 0.04                      | <0.02                     |
| Heavy metals (as Pb),% max           | 0.0015                    | <0.001                    |
| Iron (as Fe) , % max                 | 0.003                     | <0.001                    |
| Arsenic (as As),% max                | 0.00015                   | <0.0001                   |

**Conclusion: This product conforms to requirement of USP26 standard.**



刘斌