

## SPECIFICATION

L-Tyrosine  
Wako Special Grade

| REQUIREMENT   | SPECIFICATION            |
|---|--------------------------|
| Appearance  | White, crystals ~ powder |
| Solubility in dil.hydrochloric acid                           | to pass test             |
| Specific rotation [ $\alpha$ ]D20(c=5,dil.HCl) (after drying) | -11.3~-12.1°             |
| Loss on drying at 105°C                                       | max.0.2%                 |
| Residue after ignition (as sulfate)                           | max.0.05%                |
| Chloride (Cl)   | max.0.02%                |
| Sulfate (SO4)   | max.0.02%                |
| Heavy metals (as Pb)  | max.0.001%               |
| Arsenic (As)  | max.1ppm                 |
| Iron (Fe)   | max.0.001%               |
| Ammonium (NH4)  | max.0.02%                |
| Thin layer chromatography test                                | to pass test             |
| Assay   | min.99.0%                |