

# Shine Star (Hubei) Biological Engineering Co., Ltd.

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## SPECIFICATIONS

**Product name: L- Tyrosine**

**CAS no.: 60-18-4**

**Quality standard: USP31**

**Characters: white crystalline powder or colourless crystals,  
very slightly soluble in water**

| <b>Test Items</b>                  | <b>Limit</b>                   |
|------------------------------------|--------------------------------|
| <b>Identification</b>              | <b>as per USP31</b>            |
| <b>Specific rotation</b>           | <b>between -9.8° to -11.2°</b> |
| <b>Loss on drying</b>              | <b>not more than 0.3%</b>      |
| <b>Residue on ignition</b>         | <b>not more than 0.4%</b>      |
| <b>Chloride</b>                    | <b>not more than 0.04%</b>     |
| <b>Sulfate</b>                     | <b>not more than 0.04%</b>     |
| <b>Iron</b>                        | <b>not more than 0.003%</b>    |
| <b>Heavy metals</b>                | <b>not more than 0.0015%</b>   |
| <b>Chromatographic purity</b>      | <b>as per USP31</b>            |
| <b>Organic volatile impurities</b> | <b>as per USP31</b>            |
| <b>Residual solvents</b>           | <b>meets the requirements</b>  |
| <b>Assay</b>                       | <b>98.5% to 101.5%</b>         |

**Packaging and storage:**

**Preserve in well-closed containers and protected from light**