

Aladdin warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Aladdin-e.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Specification Sheet

Product Name: **L-Phenylalanine**
Specifications & Purity: from non-animal source,EP,JP,USP ; for cell culture,98.5 to 101.0%
SKU # **P110425**

| Parameter | Limit Values |
|---|-----------------------|
| Bacterial endotoxins | 0-25 (EU/g) |
| (As)Arsenic | 0-1 (ppm) |
| specific Rotation $[\alpha]_{20/D}(c=2 \text{ in H}_2\text{O EP})$ | -35--33.5 (°) |
| PH test | 5.4-6 |
| Chloride | 0-0.02 (%) |
| Sulfate(SO ₄ ²⁻) | 0-0.02 (%) |
| Ammonia (NH ₄) | 0-0.02 (%) |
| Other amino acids | 0-0.5 (%) |
| specific Rotation $[\alpha]_{25/D}(c=2 \text{ in H}_2\text{O USP})$ | -34.7--32.7 (°) |
| Loss on drying | 0-0.2 (%) |
| Heavy metal (as Pb) | 0-10 (ppm) |
| Ignition Residue (as sulfate) | 0-0.1 (%) |
| Iron(Fe) | 0-10 (ppm) |
| Appearance (P110425) | White crystal powder |
| Cell Culture Test | pass |
| Infrared spectrum | Conforms to Structure |
| Ninhydrin-positive substances (other amino acids) | Conforms |
| Origin | non-animal source |
| Residual solvents | complies |
| Solubility,0.5g to 10ml of 1m hyd | Clear colorless |
| Assay(Titration by HClO ₄) | 98.5-101 (%) |

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