



AnMar International Ltd.

540 Barnum Avenue
PO Box 2343
Bridgeport, CT 06608

Tel: 203-336-8330
Fax: 203-336-5508

www.anmarinternational.com

SPECIFICATION SHEET

L-Alanine

Item Code: 309

Country of Origin: China

Updated: July 2012

Molecular Formula: $C_3H_7NO_2$

| TEST ITEMS | SPECIFICATIONS | TEST METHODS |
|---------------------|---------------------------|---------------------------|
| Description | White crystalline powder | Visual |
| Identification | To pass | TLC Instrumental analysis |
| Assay | 99.0% - 100.0% | Non-aqueous titration |
| Specific Rotation | +13.7 to +15.1° | Specific rotation method |
| Chloride | ≤0.05% | Colorimetry |
| Sulfate | ≤0.03% | Colorimetry |
| Iron | ≤0.003% | Colorimetry |
| Loss on Drying | ≤0.20% | Gravimetric determination |
| Residue on Ignition | ≤0.15% | Gravimetric determination |
| Heavy Metals | ≤15 ppm | Colorimetry |
| pH | 5.7 - 6.7 | pH meter |
| Conclusion: | Conforms to USP standards | |
| Shelf Life: | 2 years | |
| Packing: | In drums of 25 kgs | |

- Kosher certified

Gayathri Vasudevan
Manager, Quality Assurance & Regulatory