

CERTIFICATE OF ANALYSIS

L-METHIONINE

| ITEM | SPECIFICATION | RESULT |
|-------------------------|-----------------------|-------------------|
| 1. Specific rotation: | +22.4-+24.7 | 22.2 |
| 2. PH: | 5.6-6.1 | 6.0 |
| 3. Chloride: | Not more than 0.05% | Less then 0.05% |
| 4. Sulfate: | Not more than 0.03% | Less then 0.05% |
| 5. Heavy metals | Not more than 0.0010% | Less then 0.0010% |
| 6. Iron: | Not more than 0.003% | Less then 0.003% |
| 7. Loss on drying: | Not more than 0.3% | 0.1% |
| 8. Residue on ignition: | Not more than 0.4% | 0.1% |
| 9. Assav: | 98.5-101.5% | 99.60% |