Agilent Technologies

Fluka

# Certificate of Analysis

Description : Amino Acid Standard (0.025 nmol/µl) 10/pk

Part.-No. : 5061-3333 Production date : 21.08.02

Lot-No. : 094014/1 (99415) Expiration date : 21.08.04

| No. | Component | Molecular Weight | Final Concentration (mg/ml) |
|---|---|---|---|
| 01 | **L-Alanine** | 89.10 | 0.00223 |
| 02 | **L-Arginine** | 174.20 | 0.00436 |
| 03 | **L-Aspartic Acid** | 133.11 | 0.00333 |
| 04 | **L-Cystine** | 240.30 | 0.00300 |
| 05 | **L-Glutamic Acid** | 147.13 | 0.00368 |
| 06 | **Glycine** | 75.07 | 0.00188 |
| 07 | **L-Histidine Hydrochloride Monohydrate** | 209.63 | 0.00524 |
| 08 | **L-Isoleucine** | 131.18 | 0.00328 |
| 09 | **L-Leucine** | 131.18 | 0.00328 |
| 10 | **L-Lysine Hydrochloride** | 182.65 | 0.00457 |
| 11 | **L-Methionine** | 149.21 | 0.00373 |
| 12 | **L-Phenylalanine** | 165.19 | 0.00413 |
| 13 | **L-Proline** | 115.13 | 0.00288 |
| 14 | **L-Serine** | 105.09 | 0.00263 |
| 15 | **L-Threonine** | 119.12 | 0.00298 |
| 16 | **L-Tyrosine** | 181.19 | 0.00453 |
| 17 | **L-Valine** | 117.15 | 0.00293 |

Purity Determination:
Amino acids by Titration, Loss on drying, Residue on ignition, IR-Spectroscopy, MicroSelect-Test, Trace Metal and Trace Anion Determination
Hydrochloric acid by Titration, MicroSelect-Test, Trace Metal and Trace Anion Determination

Raw materials
All raw materials used to prepare this amino acid standard are of the highest available purity (> 99%) and are routinely analyzed according to the above-mentioned purity-determinations.

Manufacturing
We employ precise measuring techniques in manufacturing this amino acid standard. Mass is determined with electronic balances capable of weighing to 0.0001 g and calibrated by the Swiss Office of Weights and Measures. Volume ist determined in dedicated high-purity borosilicate volumetric flasks capable of measuring a 2000 ml-volume with an accuracy of 0.3%.