Agilent Technologies

Fluka

Certificate of Analysis

Description : Amino Acid Standard (0.25 nmol/µl) 10/pk

Part.-No. : 5061-3331 Production date : 15.08.02

Lot-No. : 093982/1 (99413) Expiration date. : 15.08.04

No.	Component	Molecular Weight	Final Concentration (mg/ml)
01	**L-Alanine**	89.10	0.02228
02	**L-Arginine**	174.20	0.04355
03	**L-Aspartic Acid**	133.11	0.03328
04	**L-Cystine**	240.30	0.03004
05	**L-Glutamic Acid**	147.13	0.03678
06	**Glycine**	75.07	0.01877
07	**L-Histidine Hydrochloride Monohydrate**	209.63	0.05241
08	**L-Isoleucine**	131.18	0.03279
09	**L-Leucine**	131.18	0.03279
10	**L-Lysine Hydrochloride**	182.65	0.04566
11	**L-Methionine**	149.21	0.03730
12	**L-Phenylalanine**	165.19	0.04130
13	**L-Proline**	115.13	0.02878
14	**L-Serine**	105.09	0.02627
15	**L-Threonine**	119.12	0.02978
16	**L-Tyrosine**	181.19	0.04530
17	**L-Valine**	117.15	0.02929

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%.