Agilent Technologies

Fluka

Certificate of Analysis

Description : Amino Acid Standard (0.010 nmol/µl) 10/pk

Part.-No. : 5061-3334 Production date : 12.06.02

Lot-No. : 093852/1 (99416) Expiration date : 12.06.04

No.	Component	Molecular Weight (g)	Final Concentration (mg/ml)
01	**L-Alanine**	4.4550	0.00089
02	**L-Arginine**	8.7100	0.00174
03	**L-Aspartic Acid**	6.6555	0.00133
04	**L-Cystine**	2.4030	0.00120
05	**L-Glutamic Acid**	7.3565	0.00147
06	**Glycine**	3.7535	0.00075
07	**L-Histidine Hydrochloride Monohydrate**	10.4815	0.00210
08	**L-Isoleucine**	6.5590	0.00131
09	**L-Leucine**	6.5590	0.00131
10	**L-Lysine Hydrochloride**	9.1325	0.00183
11	**L-Methionine**	7.4605	0.00149
12	**L-Phenylalanine**	8.2595	0.00165
13	**L-Proline**	5.7565	0.00115
14	**L-Serine**	5.2545	0.00105
15	**L-Threonine**	5.9560	0.00119
16	**L-Tyrosine**	3.6238	0.00181
17	**L-Valine**	5.8575	0.00117

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%.