

Product Information

AA calibration standard allo-isoleucine

Order No.: 5.403.161

Inhalt: 5,0 ml

Storage temperature long term: - 20°C (or below); unfrozen up to 5 days at max. +8°C.

(This product is not approved for In-Vitro Diagnostic use!)

Lot: Example

Exp. Date :

Concentration of each component: $c = 1,00 \mu\text{mol/ml}$ (+ 1% / - 4%)

IMPORTANT INFORMATION:

Before use thaw the solution completely and mix thoroughly! Refreeze as soon as possible. Frequent thawing and refreezing should be avoided; instead of this it is recommended to make aliquots of suitable volumes.

This standard solution contains L-allo-isoleucine dissolved in 0.20m lithium citrate buffer (pH = 2.20) with 0.1% phenol (preservative) and 2% thiodiglycol (antioxidant).

To achieve the required concentration dilute with the appropriate dilution buffer.

Biochrom (all instruments): Li-Citrate Sample Loading Buffer, order no. 80-2038-10.

Eppendorf-Biotronik LC 3000: Li-Acetate Sample Dilution Buffer, order no. 5.403.047.

Elution sequence according to all BIOCHROM AAA running a physiological separation program
(High Resolution or High Performance):

No.	Component	M [g/mol]	No.	Component	[g/mol] M
1	O-Phosphoserine	185.1	19	Cystathionine	222.3
2	Taurine	125.1	20	Isoleucine	131.2
3	Phosphoethanoamine	141.1	21	Leucine	131.2
4	Urea	60.1	22	Tyrosine	181.2
5	Aspartic Acid	133.1	23	β -Alanine	89.1
6	Hydroxyproline	131.1	24	Phenylalanine	165.2
7	Threonine	119.1	25	β -Amino-Isobutyric Acid	103.1
8	Serine	105.1	26	γ -Amino-n-Butyric Acid	103.1
9	Glutamic Acid	147.1	27	Ammonia (NH ₄ ⁺)	18.0
10	α -Aminoadipic Acid	161.2	28	Ornithine	132.2
11	Proline	115.1	29	Lysine	146.2
12	Glycine	75.1	30	1-Methyl-Histidine	169.2
13	Alanine	89.1	31	Histidine	155.2
14	Citrulline	175.2	32	Tryptophan	204.2
15	α -Amino-n-Butyric Acid	103.1	33	3-Methyl-Histidine	169.2
16	Valine	117.2	34	Carnosine	226.2
17	Cystine	240.3	35	Arginine	174.2
18	Methionine	149.2			

Notes on separation:

ASA Biochrom:

The separation allo-isoleucine u. Cystathionine is depending on the separation program and Column usually more or less incomplete. This separation can be optimized by extending the runtime of buffer B. For support please contact our application lab (06058-1445).

ASA Eppendorf LC3000:

In the physiological separation program (P2) the allo-isoleucine is superimposed by methionine. A separation of allo-isoleucine is only possible with the short program PKU Extended.