

Product Information

AA Calibration Standard Cystathionine

Order No.: 5.403.157

Content: 5.0 ml

Store frozen (-15°C or below)!

Unfrozen up to 5 days at ambient temperature.

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

Lot: Example

Date of Manufacture:

Exp. Date:

<u>Component</u>	<u>Concentration [µmol/ml]</u>
Cystathionine	0.525

Changed composition: Due to clinical relevance, the physiological standard from the batch P-3202-003 with manufacturing date March 2020 onwards contains Allo-Isoleucine [1µmol/ml] instead of Cystathionine [0.525 µmol/ml].

For a quantitative analysis of Cystathionine, it will in future be referred to as AS calibration standard Cystathionine (article no. 5.403.157).

For the differentiation of Allo-Isoleucine and Cystathionine, please use the AS-calibration standard Cystathionine and modify the separation if necessary, to avoid a superposition of the two amino acids

IMPORTANT INFORMATION:

The separation of Allo-Isoleucine and Cystathionine is usually more or less incomplete depending on the separation program and the column. This separation can be optimized by extending the run time of buffer 2. For support please contact our application laboratory (06058-1445).

Make sure that a differentiation to the Allo-Isoleucine newly included in the physiological standard is possible. If you do not see any diagnostic relevance in the determination of Cystathionine, you can omit the addition of the Cystathionine supplement standard.

Sample preparation (example):

Standard physiological	200µl
Standard phys. Addition	200µl
Standard Cystathionine	200µl
Lithium Loading Buffer	400µl

Elution sequence in mixture with the standard physiologically on all Biochrom-ASA with the physiological separation programs (High Resolution, High Performance):

No.	Component	$\frac{M}{[g/mol]}$	No.	Component	$\frac{M}{[g/mol]}$
1	O-Phosphoserine	185.1	22	Isoleucine	131.2
2	Taurine	125.1	23	Leucine	131.2
3	Phosphoethanolamine	141.1	24	Tyrosine	181.2
4	Urea	60.1	25	β -Alanine	89.1
5	Aspartic Acid	133.1	26	Phenylalanine	165.2
6	Hydroxyproline	131.1	27	β -Amino-Isobutyric Acid	103.1
7	Threonine	119.1	28	Homocystine	268.4
8	Serine	105.1	29	γ -Amino-n-Butyric Acid	103.1
9	Glutamic Acid	147.1	30	Ethanolamine	61.1
10	Sarcosine	89.1	31	Ammonia (NH ₄ ⁺)	18.0
11	α -Aminoadipic Acid	161.2	32	Hydroxylysine	162.2
12	Proline	115.1	33	Ornithine	132.2
13	Glycine	75.1	34	Lysine	146.2
14	Alanine	89.1	35	1-Methyl-Histidine	169.2
15	Citrulline	175.2	36	Histidine	155.2
16	α -Amino-n-Butyric Acid	103.1	37	Tryptophane	204.2
17	Valine	117.2	38	3-Methyl-Histidine	169.2
18	Cystine	240.3	39	Anserine	240.3
19	Methionine	149.2	40	Carnosine	226.2
20	Allo-Isoleucine	131.2	41	Arginine	174.2
21	Cystathionine	222.3			