

**Product Information**

**AA Calibration Standard Physiological Addition**

**Order No.: 5.403.152**

**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**

**Exp. Date:**

**Concentration of each component:                    c = 1.00 µmol/ml (+/- 4%)**

Changed composition: Due to clinical relevance, the physiological standard from this batch 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).

**IMPORTANT INFORMATION:**

Always thaw the solution completely and mix well before use! Refreeze as soon as possible. In case of frequent use, it is recommended to divide the solution into aliquots of suitable size.

This standard solution contains the amino acids marked in red in the table below dissolved in 0.1n HCl.

Dilute to the desired final concentration with the respective dilution buffer. When using simultaneously with the Physiological Standard with the Art. No. 5.403.151, the volume of the Physiological Standard must be taken into account.

Biochrom B30 Plus, B30, B20 Plus: Lithium Loading Buffer, Art. No.: 80-2038-10

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	21	Isoleucine	131.2
2	Taurine	125.1	22	Leucine	131.2
3	Phosphoethanolamine	141.1	23	Tyrosine	181.2
4	Urea	60.1	24	$\beta$ -Alanine	89.1
5	Aspartic Acid	133.1	25	Phenylalanine	165.2
6	Hydroxyproline	131.1	26	$\beta$ -Amino-Isobutyric Acid	103.1
7	Threonine	119.1	27	<b>Homocystine</b>	<b>268.4</b>
8	Serine	105.1	28	$\gamma$ -Amino-n-Butyric Acid	103.1
9	Glutamic Acid	147.1	29	<b>Ethanolamine</b>	<b>61.1</b>
10	<b>Sarcosine</b>	<b>89.1</b>	30	Ammonia (NH <sub>4</sub> <sup>+</sup> )	18.0
11	$\alpha$ -Aminoadipic Acid	161.2	31	<b>Hydroxylysine</b>	<b>162.2</b>
12	Proline	115.1	32	Ornithine	132.2
13	Glycine	75.1	33	Lysine	146.2
14	Alanine	89.1	34	1-Methyl-Histidine	169.2
15	Citrulline	175.2	35	Histidine	155.2
16	$\alpha$ -Amino-n-Butyric Acid	103.1	36	Tryptophane	204.2
17	Valine	117.2	37	3-Methyl-Histidine	169.2
18	Cystine	240.3	38	<b>Anserine</b>	<b>240.3</b>
19	Methionine	149.2	39	Carnosine	226.2
20	Allo-Isoleucine	131,2	40	Arginine	174.2