

Certificate of Analysis

Reference Material & Standard

Product Name:	Amino Acid Mix 18	Catalogue Number:	MCFD201755-WA
Appearance:	Colourless Liquid	Lot Number:	1211-RG-0013
Solvent:	0.2N Sodium Citrate	Storage:	2°C ~ 8°C Protected from light and Sealed
Expiry Date:	Oct 21, 2026	Shipping Condition:	Shipping at Room Temperature
Chemical Structure:	N/A		

NO.	Component	CAS No.	Certified Concentration Value (μmol/mL)	Uncertainty (%)
1	Glycine	56-40-6	0.52	4
2	L-Phenylalanine	63-91-2	0.50	4
3	L-Proline	147-85-3	0.53	4
4	L-Cystine	56-89-3	0.25	4
5	L-Arginine	74-79-3	0.51	4
6	L-Tyrosine	60-18-4	0.51	4
7	L-Lysine	56-87-1	0.50	4
8	L-Glutamic Acid	56-86-0	0.50	4
9	L-Methionine	63-68-3	0.50	4
10	L-(-)-Threonine	72-19-5	0.51	4
11	L-Isoleucine	73-32-5	0.51	4
12	L-Histidine	71-00-1	0.52	4
13	L-Serine	56-45-1	0.51	4
14	L-Alanine	56-41-7	0.50	4
15	L-Valine	72-18-4	0.51	4
16	L-Tryptophan	73-22-3	0.50	4
17	L-Leucine	61-90-5	0.50	4
18	L-Aspartic Acid	56-84-8	0.50	4

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of $K=2$ is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Dec 12, 2025

Date: Dec 12, 2025

Date: Dec 12, 2025



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