

## Certificate of Analysis

<b>Sample Name:</b>	<b>10th Inning</b>	<b>Eurofins Sample:</b>	<b>11694953</b>
<b>Project ID</b>		<b>Receipt Date</b>	02-May-2022
<b>PO Number</b>	N/A	<b>Receipt Condition</b>	Ambient temperature
<b>Sample Serving Size</b>	15 g	<b>Login Date</b>	27-Apr-2022
		<b>Date Started</b>	03-May-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	4
		<b>Online Order</b>	19859-1727F0AE

Analysis	Result
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**Quantity by Input \***

BCAA 2:1:1 (Leucine, Isoleucine, Valine)	5650 mg/Serving Size
The active ingredient result does not meet the declared label value which may be attributable to the variability of the analytical method.	
Citrulline Malate 1:1	1500 mg/Serving Size
Note	Results calculated from Free Amino Acid testing

**Elements by ICP Emission Spectrometry (ICP-OES)**

Iron (as ferrous fumarate)	0.614 mg/Serving Size
Potassium (as potassium chloride)	521 mg/Serving Size

**Determination of Methylcobalamin and Adenosylcobalamin by LCMS \***

Methylcobalamin	874 mcg/Serving Size
MOU	9.6 %

**Vitamin B12 by Microbiological Method**

Vitamin B12 (as methylcobalamin)	578 mcg/Serving Size
Vitamin B12	55.2 mcg/g

**Vitamin B12 by Microbiological Method - Retest**

Vitamin B12 (as methylcobalamin)	731 mcg/Serving Size
Vitamin B12 (as methylcobalamin)	791 mcg/Serving Size

**Free amino acids**

Citrulline	836 mg/Serving Size
Valine	1310 mg/Serving Size
Isoleucine	1460 mg/Serving Size
Leucine	2880 mg/Serving Size
L-Tyrosine	491 mg/Serving Size

The active ingredient result does not meet the declared label value which may be attributable to the variability of the analytical method.

L-Arginine Base	1030 mg/Serving Size
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**Free amino acids - Retest**

Citrulline	829 mg/Serving Size
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<b>Project ID</b>	ALTIN_NUT-20220427-0001	<b>Receipt Date</b>	02-May-2022
<b>PO Number</b>	N/A	<b>Receipt Condition</b>	Ambient temperature
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Analysis	Result
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**Free amino acids - Retest**

Valine	1470 mg/Serving Size
Isoleucine	1470 mg/Serving Size
Leucine	3190 mg/Serving Size
L-Tyrosine	540 mg/Serving Size
L-Arginine Base	1040 mg/Serving Size
Citrulline	842 mg/Serving Size
Valine	1470 mg/Serving Size
Isoleucine	1480 mg/Serving Size
Leucine	3200 mg/Serving Size
L-Tyrosine	539 mg/Serving Size
L-Arginine Base	1040 mg/Serving Size
Citrulline	835 mg/Serving Size
Valine	1450 mg/Serving Size
Isoleucine	1460 mg/Serving Size
Leucine	3140 mg/Serving Size
L-Tyrosine	531 mg/Serving Size
L-Arginine Base	1040 mg/Serving Size

<b>Creatine *</b>	
Creatine Monohydrate	1580 mg/Serving Size

Method References	Testing Location
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<b>Creatine (CREA_S)</b>	<b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA
Analytical Biochemistry 214, pp. 278-283 (1993).	
<b>Determination of Methylcobalamin and Adenosylcobalamin by LCMS (OC_MSB12_S)</b>	<b>Food Integrity Innovation-Brea</b> 2951 Saturn Street, Unit C Brea, CA 92821 USA
Internally Developed Method	

## Certificate of Analysis

## Method References

## Testing Location

## Elements by ICP Emission Spectrometry (ICP-OES) (ICP\_S)

## Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis of AOAC INTERNATIONAL, Method 984.27, 985.01, and 2011.14, AOAC INTERNATIONAL, Gaithersburg, MD, USA. (Modified)

## Free amino acids - Retest (FAALC\_S)

## Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

R. Schuster, "Determination of Amino Acids in Biological, Pharmaceutical, Plant and Food Samples by Automated Precolumn Derivatization and HPLC", *Journal of Chromatography*, 431:271-284 (1988).

Henderson, J.W., Ricker, R.D. Bidlingmeyer, B.A., Woodward, C., "Rapid, Accurate, Sensitive, and Reproducible HPLC Analysis of Amino Acids, Amino Acid Analysis Using Zorbax Eclipse-AAA columns and the Agilent 1100 HPLC," Agilent Publication, 2000.

## Free amino acids (FAALC\_S)

## Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

R. Schuster, "Determination of Amino Acids in Biological, Pharmaceutical, Plant and Food Samples by Automated Precolumn Derivatization and HPLC", *Journal of Chromatography*, 431:271-284 (1988).

Henderson, J.W., Ricker, R.D. Bidlingmeyer, B.A., Woodward, C., "Rapid, Accurate, Sensitive, and Reproducible HPLC Analysis of Amino Acids, Amino Acid Analysis Using Zorbax Eclipse-AAA columns and the Agilent 1100 HPLC," Agilent Publication, 2000.

## Quantity by Input (QTY\_INPUT)

## Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Quantity of ingredients verified through batch record review.

## Vitamin B12 by Microbiological Method - Retest (B12F\_S)

## Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

*Official Methods of Analysis*, Method 952.20 and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (modified)

Methods of Analysis for Infant Formulas, Infant Formula Council, Atlanta, GA, Section C-3, (1985), (modified).

## Vitamin B12 by Microbiological Method (B12F\_S)

## Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

*Official Methods of Analysis*, Method 952.20 and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (modified)

Methods of Analysis for Infant Formulas, Infant Formula Council, Atlanta, GA, Section C-3, (1985), (modified).

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## Testing Location(s)

Released on Behalf of Eurofins by

## Food Integrity Innovation-Brea

Clint Throop - Manager

Eurofins Food Chemistry Testing US, Inc.  
2951 Saturn Street  
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800-675-8375

## Food Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food  
Chemistry Testing Madison

Eurofins Food Chemistry Testing Madison, Inc.  
6304 Ronald Reagan Ave  
Madison WI 53704  
800-675-8375



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