

## Certificate of Analysis

### Perfect Supplements

1 Corticelli Street  
Florence Massachusetts 01062 United States

<b>Sample Name:</b>	<b>Female Cycle Support</b>	<b>Eurofins Sample:</b>	<b>15429362</b>
<b>Project ID</b>	PERFEC_SUP-20250618-0003	<b>Receipt Date</b>	23-Jun-2025
<b>PO Number</b>	na	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	E111901	<b>Login Date</b>	18-Jun-2025
<b>Sample Serving Size</b>	2400 mg	<b>Date Started</b>	24-Jun-2025
<b>Description</b>	Bovine Reproductive Tissue and Liver	<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	20
		<b>Online Order</b>	901-2025-E025436

#### Analysis

#### Result

##### Protein Dumas Method

Protein Factor	6.25
Protein	1.46 g/Serving Size
Nitrogen	0.234 g/Serving Size

##### Vitamin A as Retinol

Vitamin A from Retinol	68.8 IU/Serving size
Vitamin A from Retinol	22.4 mcg RAE/Serving Size

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

Iron	0.433 mg/Serving Size
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##### Vitamin D by LCMS

Total Vitamin D3	<0.0960 IU/Serving size
Total Vitamin D3 (mcg units)	<0.00240 mcg/Serving Size
Total Vitamin D2	<0.0960 IU/Serving size
Total Vitamin D2 (mcg units)	<0.00240 mcg/Serving Size

##### Amino Acids

Aspartic Acid	149 mg/Serving Size
Threonine	73.6 mg/Serving Size
Serine	77.9 mg/Serving Size
Glutamic Acid	223 mg/Serving Size
Proline	98.2 mg/Serving Size
Glycine	130 mg/Serving Size
Alanine	102 mg/Serving Size
Valine	93.9 mg/Serving Size
Isoleucine	66.3 mg/Serving Size
Leucine	134 mg/Serving Size
Tyrosine	59.9 mg/Serving Size
Phenylalanine	76.2 mg/Serving Size

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Analysis	Result
<b>Amino Acids</b>	
Lysine	119 mg/Serving Size
Histidine	40.9 mg/Serving Size
Arginine	113 mg/Serving Size
Cystine	25.6 mg/Serving Size
Methionine	38.7 mg/Serving Size
Collagen (Calculated from hydroxyproline using a conversion factor of 8)	275 mg/Serving Size

Method References	Testing Location
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<b>Amino Acids (TAALC_S)</b>	<b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA
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R. Schuster, "Determination of Amino Acids in Biological, Pharmaceutical, Plant and Food Samples by Automated Precolumn Derivatization and HPLC", Journal of Chromatography, 1988, 431, 271-284.

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. Barkholt and Jensen, "Amino Acid Analysis: Determination of Cysteine plus Half-Cystine in Proteins after Hydrochloric Acid Hydrolysis with a Disulfide Compound as Additive", Analytical Biochemistry, 177, 318-322 (1989).

Henderson, J.W., Brooks, A., "Improved Amino Acid Methods using Agilent Zorbax Eclipse Plus C18 Columns for a Variety of Agilent LC Instrumentation and Separation Goals," Agilent Application Note 5990-4547 (2010).

<b>Elements by ICP Emission Spectrometry (ICP-OES) (ICP_S)</b>	<b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA
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Official Methods of Analysis of AOAC INTERNATIONAL, Method 984.27, 985.01, and 2011.14, AOAC INTERNATIONAL, Gaithersburg, MD, USA. (Modified)

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Method References	Testing Location
<b>Protein Dumas Method (DGEN_S)</b>  Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 968.06 and 992.15, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified)	<b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA
<b>Vitamin A as Retinol (VALC_S)</b>  <i>Official Methods of Analysis of AOAC International</i> , Methods 992.04, 992.06, and 2001.13, AOAC INTERNATIONAL, Gaithersburg, MD, USA (modified).	<b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA
<b>Vitamin D by LCMS (VDMS_S)</b>  Official Methods of Analysis of AOAC INTERNATIONAL, Current Ed., Method 2011.11, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (Modified)  Huang, M., Laluzerne, P., Winters, D., Sullivan, D., "Measurement of Vitamin D in Foods and Nutritional Supplements by Liquid Chromatography/Tandem Mass Spectrometry," <i>Journal of AOAC International</i> , Volume (92). No. 5:1327-1335 (2009).	<b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA

Testing Location(s)	Released on Behalf of Eurofins by
<b>Food Integrity Innovation-Madison</b>  Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375	<b>Edward Ladwig - President Eurofins Food Chemistry Testing Madison</b>  

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