

# Certificate of Analysis

## Body Building

<b>Sample Name:</b>	<b>100% Whey Power</b>	<b>Covance Sample:</b>	<b>3070435</b>
<b>Project ID</b>	BODY_BUILD-20140625-0005	<b>Receipt Date</b>	23-Jun-2014
<b>PO Number</b>	Charge/MC	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	3324J13 0608	<b>Login Date</b>	25-Jun-2014
<b>Sample Serving Size</b>	37 g	<b>Storage Condition</b>	-20 (+/- 10) Degrees Celsius
		<b>Online Order</b>	20

Analysis	Result
<b>Protein (N x 6.38) Dumas Method</b>	
Protein	26.2 g/Serving Size
<b>Free amino acids *</b>	
Aspartic Acid	<3.70 mg/Serving Size
Threonine	<3.70 mg/Serving Size
Serine	<3.70 mg/Serving Size
Glutamine	<3.70 mg/Serving Size
Glutamic Acid	<3.70 mg/Serving Size
Proline	<3.70 mg/Serving Size
Glycine	<3.70 mg/Serving Size
Alanine	<3.70 mg/Serving Size
Cystine	<3.70 mg/Serving Size
Valine	<3.70 mg/Serving Size
Methionine	<3.70 mg/Serving Size
Isoleucine	<3.70 mg/Serving Size
Leucine	<3.70 mg/Serving Size
Tyrosine	<3.70 mg/Serving Size
Phenylalanine	<3.70 mg/Serving Size
Lysine	<3.70 mg/Serving Size
Histidine	<3.70 mg/Serving Size
Arginine	<3.70 mg/Serving Size
Tryptophan	<3.70 mg/Serving Size
Asparagine	<3.70 mg/Serving Size
<b>Taurine *</b>	
Taurine	<3.70 mg/Serving Size

Method References	Testing Location
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**Free amino acids (FAALC\_S:9)** **Covance Laboratories - Madison**

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.

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Method References	Testing Location
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**Protein (N x 6.38) Dumas Method (DGEN\_S:7)**

**Covance Laboratories - Madison**

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 968.06 and 992.15, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified)

**Taurine (TRLC\_DER\_S:4)**

**Covance Laboratories - Madison**

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.

Testing Location(s)	Released on Behalf of Covance by
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**Covance Laboratories - Madison**

**Lori Ross - Associate Director**

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