

Certificate of Analysis

Parry Nutraceuticals, Division of E.I.D. Parry (India) Ltd.

Sample Name:	ORGANIC SPIRULINA TABLET BNO-ST006D17	Covance Sample:	6223314
Project ID	PARRY_NUTR-20170609-0004	Receipt Date	09-Jun-2017
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size	100 g	Login Date	09-Jun-2017
		Online Order	10

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.5077 g
Entity Weight	0.5077 g
Entity Weight	0.5056 g
Calories	
Calories	381 Cal/Serving size
Calories from Fat	
Calories	50.7 Cal/Serving size
Fat by Acid Hydrolysis	
Fat	6.8 g/Serving Size
Fatty Acids Calculated as Triglycerides	
Saturated Fatty Acids (Acid Form)	2.74 %
Total Cis Unsaturated Fatty Acids (Acid Form)	2.58 %
Monounsaturated Fatty Acids (Acid Form)	0.352 %
Polyunsaturated Fatty Acids (Acid Form)	2.23 %
Trans Fatty Acids (Acid Form)	0.051 %
Omega 3 Fatty Acids	0.007 %
Omega 6 Fatty Acids	2.33 %
Omega 9 Fatty Acids	0.143 %
Total Fatty Acids	5.63 %
4:0 Butyric	<0.007 %
6:0 Caproic	<0.007 %
8:0 Caprylic	<0.007 %
10:0 Capric	<0.007 %
12:0 Lauric	<0.007 %
14:0 Myristic	0.030 %
14:1 Myristoleic	<0.007 %
15:0 Pentadecanoic	0.015 %
15:1 Pentadecenoic	<0.007 %
16:0 Palmitic	2.72 %
16:1 Palmitoleic	0.186 %
17:0 Heptadecanoic	0.016 %
17:1 Heptadecenoic	<0.007 %
18:0 Stearic	0.091 %
9c 18:1 Oleic	0.143 %
18:2 Linoleic	1.11 %

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Analysis	Result
Fatty Acids Calculated as Triglycerides	
18:3 Gamma Linolenic	1.20 %
18:3 Linolenic	0.007 %
18:4 Octadecatetraenoic	<0.007 %
20:0 Arachidic	<0.007 %
20:1 Eicosenoic	<0.007 %
20:2 Eicosadienoic	<0.007 %
20:3 Eicosatrienoic (n3)	<0.007 %
20:3 Homogamma Linolenic (n6)	0.008 %
20:4 Arachidonic (n3)	<0.007 %
20:4 Arachidonic (n6)	0.008 %
20:5 Eicosapentaenoic	<0.007 %
21:5 Heneicosapentaenoic	<0.007 %
22:0 Behenic	<0.007 %
22:1 Erucic	<0.007 %
22:2 Docosadienoic	<0.007 %
22:3 Docosatrienoic	<0.007 %
22:4 Docosatetraenoic	<0.007 %
22:5 Docosapentaenoic (n3)	<0.007 %
22:5 Docosapentaenoic (n6)	<0.007 %
22:6 Docosahexaenoic	<0.007 %
24:0 Lignoceric	<0.007 %
24:1 Nervonic	<0.007 %
Total 18:1 trans	0.010 %
Total 18:1 cis	0.184 %
Total 18:2 trans	0.033 %
Total 18:3 trans	0.009 %
Carbohydrates	
Total Carbohydrates	14.7 g/Serving Size
Protein (N x 6.25) Dumas Method	
Protein	71.5 % (on Dry Basis)
Total Vitamin A	
Total Vitamin A	200000 IU/Serving size
Vitamin A from Carotenes *	
Vitamin A From Carotene	245000 IU/Serving size
Carotenes	

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Analysis	Result
Carotenes	
Beta Carotene	147000 mcg/Serving Size
Lutein	5240 mcg/Serving Size
Zeaxanthin	92000 mcg/Serving Size
Elements by ICP Emission Spectrometry	
Calcium	141 mg/Serving Size
Copper	0.372 mg/Serving Size
Iron	47.4 mg/Serving Size
Magnesium	292 mg/Serving Size
Manganese	3.37 mg/Serving Size
Phosphorus	1010 mg/Serving Size
Potassium	1480 mg/Serving Size
Sodium	681 mg/Serving Size
Zinc	1.72 mg/Serving Size
Vitamin D by LCMS	
Total Vitamin D3	<4.00 IU/Serving size
Total Vitamin D2	<2.00 IU/Serving size
Vitamin A *	
Vitamin A as Acetate	<10000 IU/Serving size
Vitamin E (Natural)	
Vitamin E	6.90 IU/Serving size
Vitamin K1	
Vitamin K1	2080 mcg/Serving Size
Thiamin by Fluorometric Method	
Thiamin	2.66 mg/Serving Size
Riboflavin by Microbiological Method	
Riboflavin	4.87 mg/Serving Size
Niacin by Microbiological Method	
Niacin	19.7 mg/Serving Size
Pyridoxine	
Pyridoxine	0.681 mg/Serving Size
Folic Acid by Microbiological Method	
Folates (may contain folic acid)	102 mcg/Serving Size
Vitamin B12 by Microbiological Method	
Vitamin B12	266 mcg/Serving Size

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Analysis	Result
Biotin by Microbiological Method	
Biotin	10.6 mcg/Serving Size
Pantothenic Acid by Microbiological Method	
Pantothenic Acid	2.48 mg/Serving Size
Inositol *	
Inositol	96.9 mg/Serving Size
Amino Acids	
Aspartic Acid	6140 mg/Serving Size
Threonine	3180 mg/Serving Size
Serine	3050 mg/Serving Size
Glutamic Acid	8900 mg/Serving Size
Proline	2470 mg/Serving Size
Glycine	3270 mg/Serving Size
Alanine	4760 mg/Serving Size
Valine	3750 mg/Serving Size
Isoleucine	3730 mg/Serving Size
Leucine	5970 mg/Serving Size
Tyrosine	3040 mg/Serving Size
Phenylalanine	2930 mg/Serving Size
Lysine	3050 mg/Serving Size
Histidine	1040 mg/Serving Size
Arginine	4660 mg/Serving Size
Cystine	584 mg/Serving Size
Methionine	1400 mg/Serving Size
Tryptophan	
Tryptophan	988 mg/Serving Size
Ash *	
Page No.	426
Ash	6.70 %
Loss on Drying *	
Loss On Drying	5.0 g/Serving Size
Page No.	614
Page No.	614
Aerobic Plate Count *	
Aerobic Plate Count	6000 CFU/g

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Analysis	Result
E. coli *	
Escherichia Coli	Absent /10 g
Enterobacteriaceae (Bile-Tolerant Gram-Negative Bacteria) *	
Enterobacterial Count	<10 MPN/g
Salmonella USP *	
Salmonella	Absent /10 g
Staphylococcus *	
Staphylococcus Aureus	Absent /10 g
Yeast and Mold Count *	
Yeast Count	<10 CFU/g
Mold Count	<10 CFU/g
Elements by ICP Mass Spectrometry	
Arsenic	41.6 ppb
Cadmium	7.24 ppb
Chromium *	218 ppb
Lead	67.3 ppb
Tin *	26.7 ppb
Mercury	<5.00 ppb
Iodine by ICP-MS	
Iodine	163 mcg/Serving Size
Selenium *	
Selenium	6.28 mcg/Serving Size
Chlorophyll by Vonshak Method *	
Chlorophyll a	1.77 %
Content of C-Phycocyanin (Spirulina- USP) *	
Result	7.3%
Nitrogen determination *	
Nitrogen, Kjeldahl (dry basis)	10.9 %
Protein (N x 6.25) dry basis	68.1 %

Method References	Testing Location
Aerobic Plate Count (USPC2021)	Covance Laboratories - Madison NE

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Method References	Testing Location
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Aerobic Plate Count (USPC2021)
Covance Laboratories - Madison NE

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Amino Acids (TAALC_S)
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. 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).

Ash (ASHTOTAL_S)
Covance Laboratories - Madison

United States Pharmacopeia, 40th Revision - National Formulary 35th Edition. USP Convention. Rockville, MD (2016). (Modified).

Biotin by Microbiological Method (BIOM_S)
Covance Laboratories - Madison

Scheiner, J. and De Ritter, E., "Biotin Content of Feedstuffs," *Journal of Agricultural and Food Chemistry*, 23(6): 1157-1162 (1975). (Modified)

Wright, L.D., Skeggs, H.R., "Determination of Biotin with Lactobacillus arabinosis," *Procedures of the Society of Experimental Biology and Medicine*, 56:95-98 (1944). (Modified)

Free Biotin, Section C-13, *Methods of Analysis for Infant Formulas*, Infant Formula Council, (1985). (Modified)

Scheiner, J., "Extraction of Added Biotin From Animal Feed Premix," *Journal of the AOAC*, 49(4):882-883, (1996). (Modified)

Calculated Sample Weight (PREP)
Covance Laboratories - Madison
Calories (CALC)
Covance Laboratories - Madison

Code of Federal Regulations, Title 21, Part 101.9, pp. 24-25.

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Method References	Testing Location
<p>Calories from Fat (CFAT)</p> <p>Code of Federal Regulations, Title 21, Part 101.9, pp. 24-25.</p>	<p>Covance Laboratories - Madison</p>
<p>Carbohydrates (CHO)</p> <p>United States Department of Agriculture, "Energy Value of Foods", Agriculture Handbook No. 74, pp. 2-11, (1973).</p>	<p>Covance Laboratories - Madison</p>
<p>Carotenes (CAR1_S)</p> <p>Official Methods of Analysis, Method 2005.07, AOAC INTERNATIONAL, (modified). Quackenbush, F. W., "Reverse Phase HPLC Separation of cis- and trans-Carotenoids and Its Application to Beta Carotenes in Food Materials," <i>Journal of Liquid Chromatography</i>, 10: 643-653 (1987) (modified).</p>	<p>Covance Laboratories - Madison</p>
<p>Carotenes (CAR2_S)</p> <p>Official Methods of Analysis of AOAC INTERNATIONAL (2005) 18th Ed., AOAC INTERNATIONAL, Gaithersburg, MD, USA, Official Method 941.15.</p> <p>Quackenbush, F. W., <i>Journal of Liquid Chromatography</i>, 10:643-653, (1987). (Modified)</p>	<p>Covance Laboratories - Madison</p>
<p>Chlorophyll by Vonshak Method (MISC_4016)</p> <p>Client supplied: Vonshak. A. (1997). <i>Spirulina platensis (Arthrospira) Physiology, cell-biology and biotechnology</i>. 214 (modified).</p>	<p>Covance Laboratories - Madison</p>
<p>Content of C-Phycocyanin (Spirulina- USP) (MISC_MONO)</p> <p>United States Pharmacopeia, 40th Revision - National Formulary 35th Edition. USP Convention. Rockville, MD (2016). (Modified).</p>	<p>Covance Laboratories - Madison</p>
<p>E. coli (USPE2022)</p> <p>USP Current revision, Chapter 2022. To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix. **Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.</p>	<p>Covance Laboratories - Madison NE</p>
<p>Elements by ICP Emission Spectrometry (ICP_S)</p> <p>Official Methods of Analysis of AOAC INTERNATIONAL, Method 984.27, 985.01, and 2011.14, AOAC INTERNATIONAL, Gaithersburg, MD, USA. (Modified)</p>	<p>Covance Laboratories - Madison</p>

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Method References	Testing Location
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Elements by ICP Mass Spectrometry (ICP_MS_S)

Covance Laboratories - Madison

Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).

Enterobacteriaceae (Bile-Tolerant Gram-Negative Bacteria) (USPN2021)

Covance Laboratories - Madison NE

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Fat by Acid Hydrolysis (FAT_AH_S)

Covance Laboratories - Madison

Food Products that are not Dairy, Egg or Cheese Products

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 922.06 and 954.02, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified)

Cheese and Cheese Products

Official Methods of Analysis of AOAC INTERNATIONAL (2005) 18th Ed., AOAC INTERNATIONAL, Gaithersburg, MD, USA, Official Method 933.05. (Modified)

Egg, Egg Products, and Mayonnaise

Official Methods of Analysis of AOAC INTERNATIONAL (2005) 18th Ed., AOAC INTERNATIONAL, Gaithersburg, MD, USA, Official Method 925.32. (Modified)

Fatty Acids Calculated as Triglycerides (FALT_S)

Covance Laboratories - Madison

Official Method No. 996.06, Official Methods of Analysis of the AOAC INTERNATIONAL (modified), 19th Ed., AOAC INTERNATIONAL: Gaithersburg, Maryland (2012).

Official Methods and Recommended Practices of the AOCS, Official methods Ce 2b-11 (2011), Ce 1h-05 (2009), Ce 1j-07 (2013), Ce 2-66 (2009), The American Oil Chemists' Society, Champaign, IL (modified).

Folic Acid by Microbiological Method (FOAN_S)

Covance Laboratories - Madison

Official Methods of Analysis of AOAC INTERNATIONAL, Method 992.05 and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD, USA (Modified).

“Methods of Analysis for Infant Formulas,” Infant Formula Council, Atlanta, GA, Section C-2 (1985) (Modified).

Inositol (INOS_IC_S)

Covance Laboratories - Madison

Tagliaferri EG, Bonetti, G, Blake, CJ, Ion Chromatographic Determination of inositol in infant formulae and clinical products for enteral feeding. *J Chromatogr A*. 2000 May 26;879(2): 129-135.

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Method References	Testing Location
<p>Iodine by ICP-MS (IODICPMS_S) Official Methods of Analysis of AOAC INTERNATIONAL, Current Ed., Method 2012.15, AOAC INTERNATIONAL, Gaithersburg, MD, USA.</p>	<p>Covance Laboratories - Madison</p>
<p>Loss on Drying (LOD_S) United States Pharmacopeia, 40th Revision - National Formulary 35th Edition. USP Convention. Rockville, MD (2016). (Modified).</p>	<p>Covance Laboratories - Madison</p>
<p>Niacin by Microbiological Method (NIAP_S) <i>Official Methods of Analysis</i>, Methods 944.13 and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD (Modified)</p>	<p>Covance Laboratories - Madison</p>
<p>Nitrogen determination (MISC_SEND) Test performed by a third party laboratory</p>	<p>NP Analytical Laboratories</p>
<p>Pantothenic Acid by Microbiological Method (PANN_S) <i>Official Methods of Analysis</i>, Methods 945.74, 992.07, and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD (Modified).</p>	<p>Covance Laboratories - Madison</p>
<p>Protein (N x 6.25) Dumas Method (DGEN_S) Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 968.06 and 992.15, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified)</p>	<p>Covance Laboratories - Madison</p>
<p>Pyridoxine (B6A_S) <i>Official Methods of Analysis</i>, Method 961.15, AOAC INTERNATIONAL (Modified). Atkins, L., Schultz, A. S., Williams, W. L., and Frey, C. N., "Yeast Microbiological Methods for Determination of Vitamins," <i>Industrial and Engineering Chemistry, Analytical Edition</i>, 15(2):141-144, (1943).</p>	<p>Covance Laboratories - Madison</p>
<p>Riboflavin by Microbiological Method (B2FV_S) <i>Official Methods of Analysis</i>, Methods 940.33 and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD (Modified).</p>	<p>Covance Laboratories - Madison</p>
<p>Salmonella USP (USPS2022) USP Current revision, Chapter 2022. To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix. **Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.</p>	<p>Covance Laboratories - Madison NE</p>

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Method References	Testing Location
<p>Selenium (SEICPMS_S)</p> <p>Sullivan, D., Zywicki, R., Yancey, M., "Method for the Determination of Total Selenium in a Wide Variety of Foods Using Inductively Coupled Plasma/Mass Spectrometry" Journal of the AOAC INTERNATIONAL, 96 (4): 786-794 (2013). (Modified).</p> <p>Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., AOAC INTERNATIONAL, Gaithersburg, MD, USA, Official Method 2011.19 (2011). (Modified).</p>	<p>Covance Laboratories - Madison</p>
<p>Staphylococcus (USPA2022)</p> <p>USP Current revision, Chapter 2022.</p> <p>To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.</p> <p>**Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.</p>	<p>Covance Laboratories - Madison NE</p>
<p>Thiamin by Fluorometric Method (BIDE_S)</p> <p>Official Methods of Analysis, Methods 942.23, 953.17, and 957.17, AOAC INTERNATIONAL (Modified).</p>	<p>Covance Laboratories - Madison</p>
<p>Total Vitamin A (VAT_CALC)</p> <p>Calculation on request.</p>	<p>Covance Laboratories - Madison</p>
<p>Tryptophan (TRPLC_S)</p> <p>Official Methods of Analysis of AOAC INTERNATIONAL, AOAC International Gaithersburg, MD, USA, Official Method 988.15.</p> <p>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.</p> <p>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.</p> <p>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).</p>	<p>Covance Laboratories - Madison</p>
<p>Vitamin A (VITA_DS_S)</p> <p>USP 38 - NF 33 pp 6384-6385, Dietary Supplements, Oil- and Water-Soluble Vitamins with Minerals Tablets, Vitamin A, Methods 1 and 2 (modified)</p>	<p>Covance Laboratories - Madison</p>
<p>Vitamin A from Carotenes (BCAV_S)</p> <p>Calculation on request.</p>	<p>Covance Laboratories - Madison</p>

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Method References	Testing Location
Vitamin B12 by Microbiological Method (B12F_S) <i>Official Methods of Analysis</i> , 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).	Covance Laboratories - Madison
Vitamin D by LCMS (VDMS_S) <i>Official Methods of Analysis of AOAC INTERNATIONAL</i> , Current Ed., Method 2011.11, AOAC INTERNATIONAL, Gaithersburg, MD, USA. 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).	Covance Laboratories - Madison
Vitamin E (Natural) (LCE1_S) Cort, W. M., Vincente, T. S., Waysek, E. H., and Williams, B. D., <i>Journal of Agricultural Food Chemistry</i> , 31:1330-1333 (1983). (Modified) Speek, A. J., Schijver, J., and Schreurs, W. H. P., <i>Journal of Food Science</i> , 50:121-124 (1985). (Modified) McMurray, C. H., Blanchflower, W. J., and Rice, D. A., <i>Journal of the Association of Official Analytical Chemists</i> , 63: 1258-1261 (1980). (Modified)	Covance Laboratories - Madison
Vitamin K1 (VKTK_S) <i>Official Methods of Analysis</i> , Methods 992.27, 999.15, AOAC International (Modified).	Covance Laboratories - Madison
Yeast and Mold Count (USPM2021) USP Current revision, Chapter 2021. To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix. **Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.	Covance Laboratories - Madison NE

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

Edward Ladwig - Director

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3301 Kinsman Blvd
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2918.01

Covance Laboratories - Madison NE

Richard Higby - Director

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2102 Wright Street
Madison WI 53704
855-83-MICRO

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