

**Biopharma Scientific, Incorporated**

9010 Kenamar Drive  
San Diego California 92121 United States

**Certificate of Analysis**  
Final Report

Print Date: 05-Jan-2010 4:47 pm

Report Date: 05-Jan-2010

Report Number: 184557-0



Testing Cert #2918.01

<b>Client Sample Name: NanoRed10</b>		<b>Covance Sample Number: 355049</b>	
<b>Project ID</b>	BIOPHARMA-20091223-0018	<b>Receipt Date</b>	23-Dec-2009
<b>PO Number</b>	N/A	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	121809	<b>Login Date</b>	23-Dec-2009
<b>Sample Serving Size</b>	12.0 g	<b>Storage Condition at Covance</b>	-20 (+/- 10) Degrees Celsius
		<b>Number Compositied</b>	20
		<b>Disposal Instructions</b>	Dispose 30 days after final reported

**Analysis/Result**

**Result**

**Fatty Acid Profile**

Saturated Fatty Acids (Acid Form)	0.0095 g/Serving Size
Monounsaturated Fatty Acids (Acid Form)	0.0061 g/Serving Size
Polyunsaturated Fatty Acids (Acid Form)	0.0067 g/Serving Size
Trans Fatty Acids (Acid Form)	<0.0008 g/Serving Size
Total Fatty Acids	0.0234 g/Serving Size

**Sugar Profile**

Fructose	0.17 g/Serving Size
Glucose	0.86 g/Serving Size
Sucrose	0.12 g/Serving Size
Lactose	<0.01 g/Serving Size
Maltose	0.80 g/Serving Size
Galactose	<0.01 g/Serving Size
Total Sugar	1.96 g/Serving Size

**Calories \***

Calories	45.1 Cal/Serving size
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**Calories from Fat**

Calories	0.211 Cal/Serving size
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**Cholesterol**

Cholesterol	<0.12 mg/Serving Size
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**Carbohydrates**

Total Carbohydrates	11.1 g/Serving Size
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**Total Dietary Fiber**

Total Dietary Fiber	0.200 g/Serving Size
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**Protein (N x 6.25) Dumas Method**

Protein	0.11 g/Serving Size
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**Vitamin A**

Vitamin A	<12.0 IU/Serving size
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**Vitamin C**

Vitamin C	94.3 mg/Serving Size
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**Elements by ICP Emission Spectrometry**

Calcium	3.84 mg/Serving Size
Iron	0.197 mg/Serving Size

\* This analysis is not ISO accredited.

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**Analysis/Result**

**Result**

**Elements by ICP Emission Spectrometry**

Sodium	3.25 mg/Serving Size
<b>Ash</b>	
Ash	0.298 g/Serving Size
<b>Moisture</b>	
Moisture	0.44 g/Serving Size

**Method References**

**Testing Location**

**Ash (ASHM\_S:5)**

**Covance Laboratories Inc.**

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Method 923.03, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified)

**Calories (CALC:4)**

**Covance Laboratories Inc.**

United States Department of Agriculture, "Composition of Foods" Agricultural Handbook, No. 8, pp. 159-160, (1975).

**Calories from Fat (CFAT:3)**

**Covance Laboratories Inc.**

United States Department of Agriculture, "Composition of Foods" Agricultural Handbook, No. 8, pp. 159-160, (1975).

**Carbohydrates (CHO:5)**

**Covance Laboratories Inc.**

United States Department of Agriculture, "Energy Value of Foods", Agriculture Handbook No. 74, pp. 2-11, (1973).

**Cholesterol (CHOK\_S:7)**

**Covance Laboratories Inc.**

Official Methods of Analysis of AOAC INTERNATIONAL 18th Ed., AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005), Official Method 994.10. (Modified)

**Elements by ICP Emission Spectrometry (ICP\_S:11)**

**Covance Laboratories Inc.**

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Method 984.27 and 985.01, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified)

**Fatty Acid Profile (FPT\_S:16)**

**Covance Laboratories Inc.**

Official Methods of Analysis of AOAC INTERNATIONAL 18th Ed., AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005), Official Method 996.06 (Modified)

Official Methods and Recommended Practices of the AOCS, Official methods Ce 1h-05 and Ce 2-66, The American Oil Chemists' Society, Champagn, IL, (2005) (Modified)

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**Moisture (M100T100\_S:4)**

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 925.09 and 926.08, AOAC INTERNATIONAL, Gaithersburg, MD, USA,(2005). (Modified).

**Protein (N x 6.25) Dumas Method (DGEN\_S:5)**

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

**Sugar Profile (SUGN\_S:7)**

Mason, B. S., and Slover, H. T., "A Gas Chromatographic Method for the Determination of Sugars in Foods," Journal of Agricultural and Food Chemistry 19(3):551-554 (1971). (Modified)

Brobst, K. M., "Gas-Liquid Chromatography of Trimethylsilyl Derivatives, Methods in Carbohydrate Chemistry," 6:3-8, Academic Press, New York, NY, (1972). (Modified)

**Total Dietary Fiber (TDFP\_S:14)**

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Method 985.29, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified). (Prosky)

**Vitamin A (VALC\_S:8)**

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 974.29, 992.04, AND 992.06, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified)

**Vitamin C (VCLC\_S:3)**

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005), Official Method 967.22. (Modified)

Asami, D.K., Journal of Agricultural and Food Chemistry. Vol. 51. p. 1237-1241 (2003).

**Testing Location(s)**

**Covance Laboratories Inc.**

3301 Kinsman Blvd  
Madison WI 53704

Released on Behalf of Covance by

**Doug Winters**

Laboratory Director

For questions on this report, please  
contact your Client Service Representative  
at 608-242-2712 x4170

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Covance.