

REPORT OF ANALYSIS



SAMPLE NUMBER: 70204281

BATCH NUMBER: 70204281

DATE ENTERED: 02/12/07

REPORT PRINTED: 02/21/07

ENIVA CORPORATION
9702 ULYSSES STREET NE
BLAINE, MN 55449

VIBE 2.0: LOT 20603907
% LC(SERVING SIZE = 1 FLUID OUNCE)

PURCHASE ORDER NUMBER: R&D

<u>ASSAY</u>	<u>ANALYSIS</u>	<u>UNITS</u>
SPECIFIC GRAVITY	1.119	GM/ML
BETA CAROTENE BY HPLC	< .0200	MG/SERVING SIZE
VITAMIN A FROM CAROTENE	< 35.	IU/SERVING SIZE
VITAMIN A BY HPLC	2340. 117.0	IU/SERVING SIZE % OF LABEL CLAIM
VITAMIN A, TOTAL	2340.	IU/SERVING SIZE
VITAMIN D BY HPLC	758. 151.6	IU/SERVING SIZE % OF LABEL CLAIM
VITAMIN E (NATURAL)	43.9 146.3	IU/SERVING SIZE % OF LABEL CLAIM
VITAMIN C	196. 163.3	MG/SERVING SIZE % OF LABEL CLAIM
THIAMIN HYDROCHLORIDE	1.87 125.	MG/SERVING SIZE % OF LABEL CLAIM
PYRIDOXINE HYDROCHLORIDE	3.54 177.	MG/SERVING SIZE % OF LABEL CLAIM
BIOTIN	326. 109.	MCG/SERVING SIZE % OF LABEL CLAIM
D-CALCIUM PANTOTHENATE	13.1 131.	MG/SERVING SIZE % OF LABEL CLAIM

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ASSAY	ANALYSIS	UNITS
FOLIC ACID	639. 160.	MCG/SERVING SIZE % OF LABEL CLAIM
RIBOFLAVIN	2.41 142.	MG/SERVING SIZE % OF LABEL CLAIM
NIACIN	21.6 108.	MG/SERVING SIZE % OF LABEL CLAIM
VITAMIN B12	22.6 188.3	MCG/SERVING SIZE % OF LABEL CLAIM
CALCIUM	116. 116.0	MG/SERVING SIZE % OF LABEL CLAIM
COPPER	.549 109.8	MG/SERVING SIZE % OF LABEL CLAIM
MAGNESIUM	155. 103.3	MG/SERVING SIZE % OF LABEL CLAIM
MANGANESE	2.08 115.6	MG/SERVING SIZE % OF LABEL CLAIM
PHOSPHORUS	20.7 103.5	MG/SERVING SIZE % OF LABEL CLAIM
POTASSIUM	217. 124.0	MG/SERVING SIZE % OF LABEL CLAIM
ZINC	5.00 100.0	MG/SERVING SIZE % OF LABEL CLAIM
CHROMIUM	162. 135.	MCG/SERVING SIZE % OF LABEL CLAIM
IODINE BY IODIDE SPECIFIC ELECTRODE	157.	MCG/SERVING SIZE
SELENIUM	24.2 96.8	MCG/SERVING SIZE % OF LABEL CLAIM

INVESTIGATION DONE/MEAN OF 3 RESULTS

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METHOD REFERENCES

SPECIFIC GRAVITY

United States Pharmacopeia, Twenty-Sixth Revision, <841>, United States Pharmacopeial Convention, Inc.: Rockville, Maryland (2003)

BETA CAROTENE BY HPLC

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Method 941.15, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005).
Quackenbush, F.W., Journal of Liquid Chromatography, 10:643-653, (1987).
(Modified)

VITAMIN A FROM CAROTENE

Calculation on request.

VITAMIN A BY HPLC

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 974.29, 992.04, AND 992.06, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005).
Thompson, J.N., and Duval, S., "Determination of Vitamin A in Milk and Infant Formula by HPLC," Journal of Micronutrient Analysis, 6:147-159, (1989).

VITAMIN A, TOTAL

Calculation on request.

VITAMIN D BY HPLC

Official Methods of Analysis of AOAC INTERNATIONAL (2000) 17th Ed., AOAC INTERNATIONAL, Gaithersburg, MD, USA, Official Method 982.29.

VITAMIN E (NATURAL)

Cort, W. M., Vincente, T. S., Waysek, E. H., and Williams, B. D., Journal of Agricultural Food Chemistry, 31:1330-1333 (1983). (Modified)
Speek, A. J., Schijver, J., and Schreurs, W. H. P., Journal of Food Science, 50:121-124 (1985). (Modified)
McMurray, C. H., Blanchflower, W. J., and Rice, D. A., Journal of the Association of Official Analytical Chemists, 63: 1258-1261 (1980). (Modified)
1 mg d-alpha-tocopherol = 1.49 International Units of Vitamin E

VITAMIN C

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

THIAMIN HYDROCHLORIDE

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 942.23, 953.17, and 957.17, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005).

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METHOD REFERENCES (CONTINUED)

PYRIDOXINE HYDROCHLORIDE

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Method 961.15, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005).
Atkins, L., Schultz, A. S., Williams, W. L., and Frey, C. N., "Yeast Microbiological Methods for Determination of Vitamins," Industrial and Engineering Chemistry, Analytical Edition, 15:141-144, (1943).

BIOTIN

Scheiner, J. and De Ritter, "Biotin Content of Feedstuffs," Journal of Agricultural Food Chemistry, 23(6):1157-1162 (1975). (Modified)
Wright and Skeggs, Procedures of the Society of Experimental Biology and Medicine, 56:95, (1944). (Modified)
Methods of Analysis for Infant Formulas, Infant Formula Council, (1985). (Modified)
Journal of the AOAC, 49:882, (1996). (Modified)

D-CALCIUM PANTOTHENATE

Official Methods of Analysis of AOAC INTERNATIONAL (2000) 17th Ed., AOAC INTERNATIONAL, Gaithersburg, MD, USA, Official Methods 960.46, 992.05. (Modified)
Methods for Analysis for Infant Formula, Infant Formula Council, Atlanta, Georgia, (1985). (modified)
Neilands and Strong, Archives of Biochemistry, 19:287-291 (1948). (Modified)

FOLIC ACID

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 960.46 and 992.05, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005).
Methods of Analysis for Infant Formulas, Infant Formula Council, Atlanta, GA, Section C-2, (1985).

RIBOFLAVIN

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 940.33 and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005).
The United States Pharmacopeia, 29th Ed., p. 1913, United States Pharmacopeial Convention, Inc.: Rockville, Maryland (2005).

NIACIN

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Method 944.13, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005)

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METHOD REFERENCES (CONTINUED)

VITAMIN B12

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 952.20 and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005).
The United States Pharmacopeia, 29th Ed., pp. 603-4, United States Pharmacopeial Convention, Inc.: Rockville, Maryland (2005).
Methods of Analysis for Infant Formulas, Infant Formula Council, Atlanta, Georgia, Section C-2, (1985).

ICP EMISSION SPECTROMETRY

Official Methods of Analysis of AOAC INTERNATIONAL, (2000) 17th ED., AOAC INTERNATIONAL Gaithersburg, MD, USA, Official Methods 984.27, 985.01.
Inductively Coupled Plasma-Atomic Emission Spectrometry Analysis of Biological Materials and Soils for Major, Trace, and Ultra-Trace Elements, Applied Spectroscopy, 32:1-29 (1978).

CHROMIUM

Methods for Chemical Analysis of Water and Wastes, Metals 1-19 and Method 218.2, U.S. EPA: Cincinnati, OH, (1979).
Miller-Ihli, N. J. and Greene, F. E., Journal of the Association of Official Chemists, 75(2):354-359, (1992). (

IODINE BY IODIDE SPECIFIC ELECTRODE

Official Methods of Analysis of AOAC INTERNATIONAL (2000) 17th Ed., AOAC INTERNATIONAL, Gaithersburg, MD, USA, Official Method 992.24. (Modified)
Instruction Manual, Iodide Electrode Model 9453, Orion Research Inc., (1999)
(Modified)

SELENIUM

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Method 986.15, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005).