



8969 Cleveland Road, Clayton, NC 27520
 Phone: 919-989-7793 Fax: 919-989-9226
 Email: nclab@advancedlabsinc.com
FDA Registration #2000040668

If you liked our service, please tell a friend. If you didn't, please tell us!

Test Certificate

Description: Perfect Matchinga
 Sample ID:
 Lot No: 8061931
 Part Code:
 Location:
 PO No: Check# 2647 (pd)
 Received: 11/19/2018

Client: Paul Morelli
 Perfect Supplements
 P.O. Box 60070
 Florence, MA 01062

Lab No: 76770-01
 Completed: 11/29/2018

Analysis	Result	Per Unit	Specifications	Method
‡ Calcium	31.5	mg/3g		ICP-OES USP <730>
‡ Mercury	0.005	ppm		ICP-MS USP <730>
‡ Lead	0.337	ppm		ICP-MS USP <730>
‡ Arsenic	0.138	ppm		ICP-MS USP <730>
‡ Cadmium	0.017	ppm		ICP-MS USP <730>
‡ Iron	0.315	mg/3g		ICP-OES USP <730>
‡ Potassium	54.1	mg/3g		ICP-OES USP <730>
† Vitamin A	129.24	IU /3g		HPLC
† Vitamin B1	0.057	mg/3g		HPLC
† Vitamin B2	0.081	mg/3g		HPLC
† Vitamin B3	1.173	mg/3g		HPLC
† Vitamin B5	0.675	mg/3g		HPLC
† Vitamin B6	0.291	mg/3g		HPLC
† Vitamin B7	0.66	mg/3g		HPLC
† Vitamin B9	0.01167	mg/3g		HPLC
† Vitamin B12	0.33	mg/3g		HPLC
† Vitamin C	46.11	mg/3g		HPLC

THESE RESULTS APPLY ONLY TO THE SAMPLE SUBMITTED AND NOT TO THE PRODUCT FROM WHICH IT WAS TAKEN. THESE RESULTS ARE PROVIDED ONLY FOR THE BENEFIT OF CLIENT, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT FOR THE EXPRESS LIMITED WARRANTY PROVIDED SOLELY TO CLIENT IN ADVANCED LABORATORIES' TERMS OF SERVICE.

THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM ADVANCED LABORATORIES.

Results Approved By:



Monika Howard-Quality Technician

Dated:

11/29/2018

Tests marked with ‡ were done at Advanced Laboratories, Inc. - 40 W Louise Ave, Salt Lake City, UT 84115
 Tests marked with † were done at Atlas Bioscience Labs, LLC, a joint venture with Advanced Laboratories. - 1775 S. Pantano Rd - Ste #110, Tucson, AZ 85710

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Carotenoid analysis performed using HPLC by method adapted from Steghens, J.P., vanKappel, A.L., Riboli, E., Collombel, C., "Simultaneous Measurement of Seven Carotenoids, Retinol and Alpha-tocopherol by High-Performance Liquid Chromatography," as published in the Journal of Chromatography, B: Biomedical Applications, 694: 71-81, 1997; utilizing a sample mixed 0.2 ml ethanol then shaken for 5 min. H₂O (0.2 ml) and hexane (0.5 ml) were added and shaken for 5 min, and the organic phase separated. After second extraction with 0.3 ml hexane, combined extract was evaporated in vacuo and residue was dissolved in 0.3 ml hexane/ethanol/methanol (1:5:44). This solution was analyzed on two columns of 3 µm Adsorbosphere HS C18 (10 cm * 4.6 mm i.d. and 15 cm * 4.6 mm i.d. in series) at 37°C. The mobile phase (0.9 ml/min) was methanol/acetonitrile (2:3), containing 0.5% acetic acid for 7.1 min, then a step gradient to 24% of CH₂Cl₂ in the same solvent for 10.3 min, with detection at 292, 325, 450 and 473 nm. Authentic chemical reference material obtained from Sigma-Aldrich.

Ascorbic acid anion analysis performed using HPLC by method adapted from Castro RN, Azeredo LC, Azeredo MAA, de Sampaio CST, "HPLC Assay for the Determination of Ascorbic Acid in Honey Samples," as published in Journal Of Liquid Chromatography & Related Technologies 24 (7): 1015-1020 2001; utilizing a C-18-ODS column with an isocratic mobile phase consisting of a mixture of 15% methanol and 85% water, adjusted to pH 2.5 with metaphosphoric acid, at a flow rate of 0.9 mL/min. detection performed by scanning PDA (200-400nm) with signal extraction at 254 nm for quantification.

Micro Vitamin B and Vitamin B analysis performed using HPLC by method adapted from Chu, K.O. and Tin, K.C., "Analysis of Commercial Multi-Vitamin Preparation by HPLC with Diode Array Detector," as published in Analytical Letters, Vol.31, No.15, pp.2707- 2715, 1998; utilizing sample dissolved in 5mM-potassium dihydrogen phosphate and 5% aqueous acetonitrile adjusted to pH 5.6 (A) with sonication and analyzed on an Alltech Alltima C18 5 µm column (25 cm*4.6 mm i.d.) with gradient elution (1 ml/min) using A and 5mM-potassium dihydrogen phosphate and 50% aqueous acetonitrile adjusted to pH 5.6 (B) from 100% A (0-18 min)

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to 50% A 50% B (18-30 min, then maintained constant from 30-40 min) to 100% B (40-41 min, then maintained constant from 41-50 min) with diode array detection. Authentic chemical reference material obtained from Sigma-Aldrich.				

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