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**FDA Registration #2000040668**

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## Test Certificate

Description: Desiccated Liver Powder  
 Sample ID: 8011804  
 Lot No:  
 Part Code:  
 Location:  
 PO No: Check # 2623  
 Received: 10/8/2018

Client: Paul Morelli  
 Perfect Supplements  
 P.O. Box 325  
 Coventry, RI 02816

Lab No: 74930-01  
 Completed: 10/15/2018

Analysis	Result	Per Unit	Specifications	Method
†Trimethylglycine	5.110	mg / g	Report	HPLC
†CoEnzyme Q10	0.105	mg/g		HPLC
*Mercury	0.001	ppm	Report	ICP-MS USP <730>
*Lead	0.070	ppm	Report	ICP-MS USP <730>
*Arsenic	0.073	ppm	Report	ICP-MS USP <730>
*Cadmium	0.099	ppm	Report	ICP-MS USP <730>

Amino acid analysis performed using HPLC following derivatization according to the AccQtag methodology (Waters, Inc.) using 20 mM HCl, Borate buffer, and AQC reagent in acetonitrile (1:3:1, v/v/v), followed by HPLC using Waters Extera C18 column (150x3.5mm, 3µm), 40°C, with isocratic mobile phase consisting of 20mM Potassium phosphate, pH3.0/Acetonitrile (95:5) 1.5ml/min with UV detection (254nm). Authentic chemical reference material obtained from Sigma-Aldrich.

Ubiquinol analysis performed using HPLC by method adapted from Mattila P, Lehtonen M, Kumpulainen J "Comparison of in-line connected diode array and electrochemical detectors in the high-performance liquid chromatographic analysis of coenzymes Q(9) and Q(10) in food materials" as published in Journal Of Agricultural And Food Chemistry 48 (4): 1229-1233 Apr 2000; utilizing sample extracted using a 5:1 n-hexane-ethanol mixture, and chromatographic separation using a normal phase column LiChrosorb SI 60 (5 • m; 25.0 x 0.4 cm) with isocratic elution using n-hexane:2-propanol (99.7:0.3), detection by diode-array detector (200-400nm), with signal extraction at 274nm for quantification.

**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: 10/15/2018

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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