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**FDA Registration #2000040668**

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## Test Certificate

Description: Bone Broth  
 Sample ID: t819912003  
 Lot No:  
 Part Code:  
 Location:  
 PO No: Check 2631

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

Lab No: 76152-01

Analysis	Result	Per Unit	Method
*Mercury	0.003	ppm	ICP-MS USP <730>
*Lead	0.003	ppm	ICP-MS USP <730>
*Arsenic	0.047	ppm	ICP-MS USP <730>
*Cadmium	0.007	ppm	ICP-MS USP <730>
†Isoflavones	<0.001	mg/g	HPLC
*Calories	360	cal/100g	Calculation
*Calories from Fat	10.40	cal/100g	AOAC
* Total Carbohydrate	<0.01	g/100g	AOAC 979.06
* Total Fat	1.16	g/100g	AOAC 991.36
† Total Protein	91.40	g/100g	AOAC 990.03
*Ash	5.27	g/100g	AOAC 942.05
*Moisture	2.60	g/100g	AOAC 930.15

**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:   
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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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<p>Protein (Kjeldahl) Elemental nitrogen content determined by Kjeldahl digestion analysis performed on two grams sample in a digestion tube with 12-15 ml of concentrated sulfuric acid (H<sub>2</sub>SO<sub>4</sub>). Seven grams of potassium sulfate (K<sub>2</sub>SO<sub>4</sub>) and a metallic copper catalyst added. The digestion tube placed into a digestion block and heated to boiling for one hour at 370°F to 400°F. Ammonia distillation performed and ammonia collected by absorption onto a solution of 4% boric acid; resultant ammonium borate titrated with 0.1N hydrochloric acid in the presence of mixed indicator, (bromocresol green / methyl red). Percent nitrogen: % N = <math>14.01 \times [(ml \text{ titrant} - ml \text{ blank}) - (N \text{ of titrant}) \times 100] / \text{Sample Wt. (grams)} \times 1000</math>. Authentic reference materials obtained from Sigma-Aldrich.</p> <p>Soy Isoflavone analysis performed using HPLC by methodology adapted from Griffith, A.P., Collison, M.W., "Improved Methods for the Extraction and Analysis of Isoflavones from Soy-Containing Foods and Nutritional Supplements by Reversed-Phase High-Performance Liquid Chromatography and Liquid Chromatography–Mass Spectrometry," as published in Journal of Chromatography A, 913 (2001) 397–413; utilizing acetonitrile extraction without acidification, with apigenin as internal standard, samples in acetonitrile–water are diluted to 50% acetonitrile and directly injected on Symmetry C18 3• m (150x4.6mm) column eluted with a gradient mobile phase of 95% water (pH3.5 with H<sub>3</sub>PO<sub>4</sub>) 5% acetonitrile, changing linearly in 30 min. to 30% water (pH3.5 with H<sub>3</sub>PO<sub>4</sub>) 70% acetonitrile. Detection by photodiode array, scanning 200-400nm with quantification at 245nm. Authentic reference materials obtained from Indofine Chemicals and Sigma-Aldrich</p>			

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