

Certificate of Analysis

Purity Coffee

1010 E. North Street, Suite B3
Greenville South Carolina 29601 United States

Sample Name:	PROTECT 2023-24 Nutrition	Eurofins Sample:	13309733
Project ID	PURITY_COF-20230912-0007	Receipt Date	13-Sep-2023
PO Number	ALTW	Receipt Condition	Ambient temperature
Sample Serving Size	15 g	Login Date	12-Sep-2023
Description	Nutrition	Date Started	13-Sep-2023
		Sampled	Sample results apply as received
		Online Order	901-2023-E056401

Analysis

Result

Elements by ICP Emission Spectrometry (ICP-OES)

Calcium	15.1 mg/Serving Size
Copper	0.191 mg/Serving Size
Iron	0.436 mg/Serving Size
Magnesium	30.0 mg/Serving Size
Phosphorus	27.1 mg/Serving Size
Zinc	0.0915 mg/Serving Size
Potassium	274 mg/Serving Size
Sodium	<0.374 mg/Serving Size

Vitamin E

Vitamin E	0.411 mg/Serving Size
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Riboflavin by Microbiological Method

Riboflavin	0.032 mg/Serving Size
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Niacin by Microbiological Method

Niacin	1.22 mg/Serving Size
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Biotin by Microbiological Method

Biotin	4.79 mcg/Serving Size
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Determination of Total Chlorogenic Acids by UPLC *

Neochlorogenic Acid	50.7 mg/Serving Size
Chlorogenic Acid	122 mg/Serving Size
4-O Caffeoylquinic Acid	65.5 mg/Serving Size
Unknown (Calculated as Chlorogenic Acid)	33.5 mg/Serving Size
3 4-Dicaffeoylquinic Acid	18.1 mg/Serving Size
3 5-Dicaffeoylquinic Acid	14.8 mg/Serving Size
4 5-Dicaffeoylquinic Acid	7.82 mg/Serving Size
Total Chlorogenic Acids	313 mg/Serving Size

Method References

Testing Location

Biotin by Microbiological Method (BIOM_S)

Food Integrity Innovation-Madison
6304 Ronald Reagan Ave Madison, WI 53704 USA

* This analysis or component is not ISO accredited.

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Method References

Testing Location

Biotin by Microbiological Method (BIOM_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Scheiner, J. and De Ritter, E., "Biotin Content of Feedstuffs," *Journal of Agricultural and Food Chemistry*, 23(6): 1157-1162 (1975). (Modified)

Wright, L.D., Skeggs, H.R., "Determination of Biotin with Lactobacillus arabinosis," *Procedures of the Society of Experimental Biology and Medicine*, 56:95-98 (1944). (Modified)

Free Biotin, Section C-13, *Methods of Analysis for Infant Formulas*, Infant Formula Council, (1985). (Modified)

Scheiner, J., "Extraction of Added Biotin From Animal Feed Premix," *Journal of the AOAC*, 49(4):882-883, (1996). (Modified)

Determination of Total Chlorogenic Acids by UPLC (OC_CHLOR_S)

Food Integrity Innovation-Brea

2951 Saturn Street, Unit C Brea, CA 92821 USA

Internally Developed Method

Elements by ICP Emission Spectrometry (ICP-OES) (ICP_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis of AOAC INTERNATIONAL, Method 984.27, 985.01, and 2011.14, AOAC INTERNATIONAL, Gaithersburg, MD, USA. (Modified)

Niacin by Microbiological Method (NIAP_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, Methods 944.13 and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD (Modified)

Riboflavin by Microbiological Method (B2FV_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, Methods 940.33 and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD (Modified).

Vitamin E (LCE1_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Speek, A.J., Schijver, J., and Schreurs, W.H.P., "Vitamin E Composition of Some Seed Oils as Determined by High-Performance Liquid Chromatography with Fluorometric Detection", *Journal of Food Science*, 50(1):121-124 (1985). (Modified).

Cort, W.M., Vincente, T.S., Waysek, E.H., and Williams, B.D., Vitamin E Content of Feedstuffs Determined by High-Performance Liquid Chromatographic Fluorescence", *Journal of Agricultural and Food Chemistry*, 31:1330-1333 (1983). (Modified).

McMurray, C.H., Blanchflower, W.J., and Rice, D.A., "Influence of Extraction Techniques on Determination of α -Tocopherol in Animal Feedstuffs", *Journal of the Association of Official Analytical Chemists*, 63(6): 1258-1261 (1980). (Modified).

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Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Brea

Eurofins Food Chemistry Testing US, Inc.
2951 Saturn Street
Unit C
Brea CA 92821
800-675-8375

Jason Mulligan - President Eurofins Botanical
Testing Brea

Food Integrity Innovation-Madison

Eurofins Food Chemistry Testing Madison, Inc.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375

Edward Ladwig - President Eurofins Food
Chemistry Testing Madison



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