

## Certificate of Analysis

### Purity Coffee

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

<b>Sample Name:</b>	<b>Purity CALM 2022</b>	<b>Eurofins Sample:</b>	<b>11485425</b>
<b>Project ID</b>	PURITY_COF-20220224-0009	<b>Receipt Date</b>	01-Mar-2022
<b>PO Number</b>	Purity CALM 2022	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	2022	<b>Login Date</b>	24-Feb-2022
<b>Sample Serving Size</b>	15 g	<b>Date Started</b>	02-Mar-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Online Order</b>	901-2022-E000250

#### Analysis

#### Result

#### Total Dietary Fiber

Total Dietary Fiber 8.91 g/Serving Size

#### Protein (N x 6.25) Dumas Method

Protein 1.97 g/Serving Size

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

Zinc 0.101 mg/Serving Size  
Phosphorus 29.5 mg/Serving Size  
Potassium 266 mg/Serving Size  
Magnesium 29.8 mg/Serving Size  
Iron 0.573 mg/Serving Size  
Calcium 18.0 mg/Serving Size  
Copper 0.220 mg/Serving Size

#### Vitamin E

Vitamin E 0.436 mg/Serving Size

#### Riboflavin by Microbiological Method

Riboflavin 0.039 mg/Serving Size

#### Niacin by Microbiological Method

Niacin 1.08 mg/Serving Size

#### Biotin by Microbiological Method

Biotin 5.09 mcg/Serving Size

#### Pantothenic Acid by Microbiological Method

Pantothenic Acid 0.029 mg/Serving Size

#### Determination of Total Chlorogenic Acids by UPLC \*

Neochlorogenic Acid 36.0 mg/Serving Size  
Chlorogenic Acid 86.0 mg/Serving Size  
4-O Caffeoylquinic Acid 46.1 mg/Serving Size  
Unknown (Calculated as Chlorogenic Acid) 4.03 mg/Serving Size  
3 4-Dicaffeoylquinic Acid 37.0 mg/Serving Size  
3 5-Dicaffeoylquinic Acid 7.81 mg/Serving Size  
4 5-Dicaffeoylquinic Acid 3.67 mg/Serving Size  
Total Chlorogenic Acids 221 mg/Serving Size

\* 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)

##### Pantothenic Acid by Microbiological Method (PANN\_S)

##### Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

*Official Methods of Analysis*, Methods 945.74, 992.07, and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD (Modified).

##### Protein (N x 6.25) Dumas Method (DGEN\_S)

##### Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 968.06 and 992.15, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (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).

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#### Method References

#### Testing Location

##### Total Dietary Fiber (TDFL\_S)

##### Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis of AOAC INTERNATIONAL 18th Ed., Method 991.43, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (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  $\alpha$ -Tocopherol in Animal Feedstuffs", *Journal of the Association of Official Analytical Chemists*, 63(6): 1258-1261 (1980). (Modified).

#### Testing Location(s)

#### Released on Behalf of Eurofins by

##### Food Integrity Innovation-Brea

Clint Throop - Manager

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

##### Food Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food  
Chemistry Testing Madison

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



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