



บริษัท ห้องปฏิบัติการกลาง (ประเทศไทย) จำกัด

Central Laboratory (Thailand) Co.,Ltd.

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Central Lab
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TEST REPORT

Date of Issue August 15, 2024

Report No. TRCS67/26339

Page (s) 01/03

Customer Name & Address COFCO Biochemical (Thailand) CO.,LTD.
(provided by customer) 263 Moo.11 T.Nongbua A.Bankhai Rayong 21120

Sample Description Citric Acid Anhydrous
(provided by customer) Lot no AA-24071255-FG

Sample Code CS67/09024-003

Sample Condition
Sample Type: Citric Acid Anhydrous
Packaging : tightly sealed plastic bag
Quantity : 1 bag, Weight/Volume : 1000 g.
Temperature : room temperature, in good condition when received

Date of sample received July 30, 2024

Date of analysis July 31, 2024 - August 14, 2024

RESULT (S)

Test item	Result	Unit	LOD	LOQ	Reference Method
Ash	0.00	g/100g	-	-	In-house method TE-CH-229 based on AOAC (2023) 945.38
Calories	399.16	Kcal/100g	-	-	Method of Analysis for Nutrition Labeling,AOAC International,1993, p.106
Cholesterol	Not Detected	mg/100g	0.25	1.00	In-house method TE-CH-143 based on AOAC (2023) 994.10
Fat	0.00	g/100g	-	-	In-house method TE-CH-014 based on AOAC (2023) 922.06
Protein	0.00	g/100g	-	-	In-house method TE-CH-042 based on AOAC (2023) 981.10
Saturated fat	0.00	g/100g	-	-	In-house method TE-CH-208 based on AOAC (2023) 996.06
Total Carbohydrate	99.79	g/100g	-	-	Method of Analysis for Nutrition Labeling,AOAC International,1993, p.106
Total Dietary Fiber	0.00	g/100g	-	-	In-house method TE-CH-076 based on AOAC (2023) 985.29
Total Sugar	0.00	g/100g	-	-	In-house method TE-CH-164 based on AOAC (2023) 925.35(B)
Trans fat	0.00	g/100g	-	-	In-house method TE-CH-208 based on AOAC (2023) 996.06

The results apply to the sample as received.

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TEST REPORT

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RESULT (S)

Test item	Result	Unit	LOD	LOQ	Reference Method
Vitamin A (Retinol)	Not Detected	µg/100g	10.00	20.00	In-house method TE-CH-024 based on Bull. Dept. Med. Sci., Vol.37, No. 1, 1995, Page 57-64
Vitamin B Complex ** ^①					
Vitamin B1 (Thiamine)	0.00836	mg/100g	0.00030	0.00090	In-house method based on Analytica Chimica Acta569 (2006) 169-175
Vitamin B2 (Riboflavin)	Not Detected	mg/100g	0.00030	0.00090	
Vitamin B3 (Nicotinamide)	0.03449	mg/100g	0.00030	0.00090	
Vitamin B3 (Nicotinic acid)	Not Detected	mg/100g	0.00030	0.00090	
Vitamin B5 (Panthothenic)	Not Detected	mg/100g	0.00030	0.00090	
Vitamin B6 (Pyridoxine)	0.00578	mg/100g	0.00030	0.00090	
Vitamin B6 (Pyridoxal)	Not Detected	mg/100g	0.00030	0.00090	
Vitamin B7 (Biotin)	Not Detected	mg/100g	0.00030	0.00090	
Vitamin B9 (Folic acid)	Not Detected	mg/100g	0.00030	0.00090	
Vitamin B12 (Cyanocobalamin)	Not Detected	mg/100g	0.00030	0.00200	
Vitamin B Complex	0.04863	mg/100g	-	-	In-house method TE-CH-120 based on Bull. Dept. Med. Sci., Vol. 40, No. 3, 1998, Page 347-357
Vitamin C (L-ascorbic acid)	Not Detected	mg/100g	1.00	2.00	
Vitamin D ** ^②	Not Detected	µg/100g	5.00	10.00	In-house method based on Journal of Chromatography A, 1105(2006) 135-139
Vitamin E	Not Detected	mg/100g	0.006	0.02	In-house method by HPLC based on AOAC (2023) 992.03
Calcium (Ca)	Not Detected	mg/kg	-	-	In-house method TE-CH-170 based on AOAC (2023) 984.27
Chromium (Cr)	<0.070	mg/kg	0.020	0.070	In-house method TE-CH-193 based on AOAC (2023) 2015.01
Copper (Cu)	Not Detected	mg/kg	0.860	2.870	In-house method TE-CH-170 based on AOAC (2023) 999.10
Iron (Fe)	0.346	mg/kg	-	-	In-house method TE-CH-170 based on AOAC (2023) 999.10
Magnesium (Mg)	Not Detected	mg/kg	-	-	In-house method TE-CH-170 based on AOAC (2023) 984.27
Manganese (Mn)	0.010	mg/kg	-	-	In-house method TE-CH-193 based on AOAC (2023) 2015.01
Molybdenum (Mo)	Not Detected	mg/kg	0.015	0.050	In-house method TE-CH-193 based on AOAC (2023) 2015.01
Potassium (K)	5.561	mg/kg	-	-	In-house method TE-CH-170 based on AOAC (2023) 984.27

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บริษัท ห้องปฏิบัติการกลาง (ประเทศไทย) จำกัด

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RESULT (S)

Test item	Result	Unit	LOD	LOQ	Reference Method
Selenium (Se)	Not Detected	mg/kg	0.015	0.045	In-house method TE-CH-193 based on AOAC (2023) 2015.01
Sodium (Na)	16.843	mg/kg	-	-	In-house method TE-CH-170 based on AOAC (2023) 984.27
Zinc (Zn)	<2.765	mg/kg	0.830	2.765	In-house method TE-CH-170 based on AOAC (2023) 999.10

Note: **@: Test method is/are not covered complying with the ISO/IEC 17025 and using the external testing service within branches of Central Laboratory (Thailand) Co., Ltd. in which is/are not covered complying with the ISO/IEC 17025 in the same test method.

~End of Report~


(Mr. Phatsakorn Nopphan)

Approved Signatory

Central Laboratory (Thailand) Co., Ltd. (Chachoengsao Branch)

CERTIFIED

The results apply to the sample as received.

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