



Certificate of Analysis

EDDYVILLE IA US 1001
 CARGILL, INCORPORATED
 17540 MONROE WAPELLO RD
 EDDYVILLE IA 52553
 USA

Ship to:
 BRENNTAG GREAT LAKES, LLC
 4801 S AUSTIN AVE
 CHICAGO IL 60638-1409
 USA

Material	100002245	Delivery	806327235
	CITRIC ACID ANHY GNLR FN FOD 50LB BG	PO Number	338982
	FCC		
Customer Product Code	177777	Contract Number	
Batch	0006528175	Truck/Rail/Container ID	23547
Date of Manufacture	05/04/2018	Best When Used By Date:	05/03/2023

Characteristic	Result	Unit of Measure	Min	Max	Method
Evaluation of Insolubles	Pass				No Excessive Physical Matter (Cargill)
Water - FCC	0.04	%		0.50	
Assay (Anhydrous Basis)	99.9	%	99.5	100.5	USP/FCC
% Retained on U.S. 30 Sieve	0.2	%		1.0	
% Through U.S. Sieve 100	0.0	%		5.0	
Residual Solvents	Typical				Meets Current USP
Readily Carbonizable Substances	Typical				Not Darker than Std K (USP)
Odor	Typical				
Identification Tests	Typical				Passes Tests (USP/FCC)
Calcium	Typical				Passes Test (JP)
Color and Clarity	Typical				Passes Tests (USP)
Oxalate	Typical				Passes Test (FCC)
Appearance	Typical				White Granules
Arsenic	Typical	ppm		1.0	JP
Heavy Metals	Typical	mg/kg		5.0	FCC Ed. IV
Sulfate	Typical	%		0.015	USP
Residue on Ignition - FCC	Typical	%		0.05	FCC
Lead	Typical	mg/kg		0.5	FCC
Limit of Oxalic Acid	Typical	%		0.036	USP
Tridodecylamine	Typical	mg/kg		0.1	FCC

The analysis of Cargill's Citric Acid Anhydrous meets the current monograph specifications for USP, FCC, EP, BP, JP, and DAB. Product held for more than five years should be reevaluated for fitness of use.

Results listed on the COA as typical or identified with an asterisk (*) are not tested on each batch, have not been tested for the batch, and represent values or ranges normally found in this material.

IMPORTANT: All information provided is believed to be accurate and complete. The data provided is representative of the product quality on the date of analysis for the lot number indicated. This certificate of analysis may not include all of the constituents of the product. Persons using this information should make their own determination regarding its suitability for their particular application. This certificate of analysis shall not in any way limit or preclude the operation and effect of the applicable terms and conditions of sale.



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This COA was generated electronically. If you have any questions concerning this document, please feel free to contact Cargill at the number listed below.

800-932-0544

customerservice@cargill.com

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