



**TO WHOM IT MAY CONCERN
CITRIC ACID LOT NUMBERING SYSTEM**

For dry citric products, Citric Acid Anhydrous, USP/FCC, Sodium Citrate Dihydrate, USP/FCC, Sodium Citrate Anhydrous, USP/FCC, and Potassium Citrate Anhydrous, USP/FCC:

S402161

Where S = production site (Southport, NC)
4 = last digit of year; 2004
02 = month; February 01 to 12 scale
16 = day of month
1 = packaging bin number

For Citrosol 501, 502 and 503, 50% Citric Acid Solutions:

04021601

Where 04 = last 2 digits of year; 2004
02 = month; February 01 to 12 scale
16 = day of month
01 = batch sequence identifier for that day

Sincerely,
ADM Technical Services

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ARCHER DANIELS MIDLAND COMPANY BOX 1470 DECATUR, ILLINOIS 62525
TEL: 800/637-5843 or 217/451-7418 FAX: 217-451-2473
www.adm.com



HACCP Summary for Sodium/Potassium Citrate

Citrate salts (Sodium/Potassium) are produced at the Southport, NC ADM production facility. These two products are campaigned on the same line with a hot water wash between campaigns. A cross-functional team reviews the hazard analysis and risk assessment annually, at a minimum, to ensure accuracy and adequacy. The HACCP plan is an integral piece of the quality program.

Critical Control Points (CCP's)

Two Critical Control Points have been identified in the production process of our Citrate Salts.

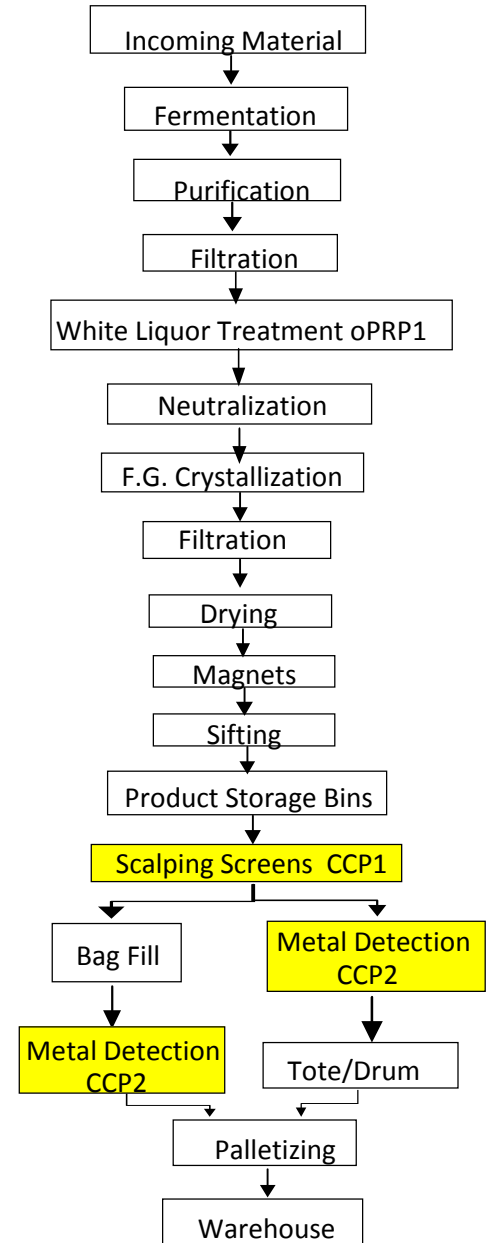
CCP #1: Scalping Screens

Sodium/Potassium Citrate is screened with a 16 mesh screen prior to the storage bins and packaging line. There are ¼" scalping screens in place before packaging units.

CCP #2: Metal Detection – Bag/Tote Fill

Prior to being packaged into bags (25 kg or 50# bags), totes or drums, the Sodium/Potassium Citrate flows through one of three metal detectors with sensitivities of 1.8 mm non-ferrous, 1.5 mm ferrous, and 2.0 mm SS. The particular metal detector the Citric Acid will pass through is dependent upon how it is being packaged.

Please contact Technical Services if you have further questions.





BULK DENSITY* OF CITRIC PRODUCTS

PRODUCT	Loose lb/ft ³	Loose gm/cm ³	Packed lb/ft ³	Packed gm/cm ³
Citric Acid Anhydrous				
Granular	56	0.897	64	1.025
Fine Granular	53	0.849	59	0.945
Powder	27	0.432	51	0.817
Citric Acid Monohydrate				
Granular	48	0.769	54	0.865
Fine Granular	51	0.817	56	0.897
Powder	31	0.497	47	0.753
Sodium Citrate Dihydrate				
Granular	62	0.993	69	1.105
Fine Granular	60	0.961	68	1.089
Powder	35	0.561	54	0.865
Sodium Citrate Anhydrous				
Granular	56	0.897	62	0.993
Powder	34	0.545	47	0.753
Potassium Citrate	69	1.105	80	1.281

*These are average typical bulk densities and not specification values

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