

**SODIUM CITRATE AND CITRIC ACID- sodium citrate and citric acid monohydrate solution**  
**ATLANTIC BIOLOGICALS CORP.**

*Disclaimer: This drug has not been found by FDA to be safe and effective, and this labeling has not been approved by FDA. For further information about unapproved drugs, click here.*

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**Sodium Citrate and Citric Acid Oral Solution USP**

A Sugar-Free Systemic Alkalizer

**DESCRIPTION**

Sodium Citrate and Citric Acid Oral Solution USP is a stable and pleasant-tasting systemic alkalizer containing sodium citrate and citric acid in a sugar-free base. It is a nonparticulate neutralizing buffer.

Sodium Citrate and Citric Acid Oral Solution USP contains in each teaspoonful (5 mL):

SODIUM CITRATE Dihydrate 500 mg (0.34 Molar)

CITRIC ACID Monohydrate 334 mg (0.32 Molar)

Each mL contains 1 mEq sodium ion and is equivalent to 1 mEq bicarbonate (HCO<sub>3</sub>).

INACTIVE INGREDIENTS: Flavoring, polyethylene glycol, propylene glycol, purified water, sodium benzoate, and sorbitol solution.

**CLINICAL PHARMACOLOGY**

Sodium citrate is absorbed and metabolized to sodium bicarbonate, thus acting as a systemic alkalizer. The effects are essentially those of chlorides before absorption and those of bicarbonates subsequently. Oxidation is virtually complete so that less than 5% of sodium citrate is excreted in the urine unchanged.

**INDICATIONS AND USAGE**

Sodium Citrate and Citric Acid Oral Solution USP is an effective alkalinizing agent. It is useful in those conditions where long-term maintenance of an alkaline urine is desirable, and is of value in the alleviation of chronic metabolic acidosis, such as results from chronic renal insufficiency or the syndrome of renal tubular acidosis, especially when the administration of potassium salts is undesirable or contraindicated. This product is also useful for buffering and neutralizing gastric hydrochloric acid quickly and effectively.

Sodium Citrate and Citric Acid Oral Solution USP is concentrated, and when administered after meals and before bedtime, allows one to maintain an alkaline urinary pH around the clock, usually without the necessity of a 2 A.M. dose. This product alkalinizes the urine without producing a systemic alkalosis in the recommended dosage. This product is highly palatable, pleasant tasting, and tolerable, even when administered for long periods.

## **CONTRAINDICATIONS**

Patients on sodium-restricted diets or with severe renal impairment.

## **PRECAUTIONS**

Sodium Citrate and Citric Acid Oral Solution USP should be used with caution by patients with low urinary output unless under the supervision of a physician. This product should not be administered concurrently with aluminum-based antacids. Patients should be directed to dilute adequately with water and preferably, to take each dose after meals to avoid saline laxative effect. Sodium salts should be used cautiously in patients with cardiac failure, hypertension, impaired renal function, peripheral and pulmonary edema, and toxemia of pregnancy. Periodic examinations and determinations of serum electrolytes, particularly serum bicarbonate level, should be carried out in those patients with renal disease in order to avoid these complications.

## **ADVERSE REACTIONS**

Sodium Citrate and Citric Acid Oral Solution USP is generally well tolerated, without any unpleasant side effects, when given in recommended doses to patients with normal renal function and urinary output. However, as with any alkalinizing agent, caution must be used in certain patients with abnormal renal mechanisms to avoid development of alkalosis, especially in the presence of hypocalcemia.

## **OVERDOSAGE**

Overdosage with sodium salts may cause diarrhea, nausea and vomiting, hypernoia, and convulsions.

## **DOSAGE AND ADMINISTRATION**

Sodium Citrate and Citric Acid Oral Solution USP should be taken diluted in water, followed by additional water, if desired. SHAKE WELL BEFORE USING.

### **For Systemic Alkalization**

#### **Usual Adult Dose**

2 to 6 teaspoonfuls (10 to 30 mL), diluted in 1 to 3 ounces of water, after meals and at bedtime, or as directed by a physician.

#### **Usual Pediatric Dose**

1 to 3 teaspoonfuls (5 to 15 mL), diluted in 1 to 3 ounces of water, after meals and at bedtime, or as directed by a physician. For children under two years of age, use is based on consultation with a physician.

**As a neutralizing buffer**

3 teaspoonfuls (15 mL), diluted with 15 mL water, taken as a single dose, or as directed by a physician.

**HOW SUPPLIED**

Product: 17856-0595

NDC: 17856-0595-3 30 mL in a CUP

**STORAGE:**

Keep tightly closed. Store at controlled room temperature, 20°-25°C (68°-77°F). Protect from freezing.

**Rx ONLY**

Manufactured By:  
Pharmaceutical Associates, Inc.  
Greenville, SC 29605  
[www.paipharma.com](http://www.paipharma.com)

R06/16

**SODIUM CITRATE AND CITRIC ACID (SODIUM CITRATE AND CITRIC ACID MONOHYDRATE) SOLUTION**

**17856-0595-03**  
**SODIUM CITRATE/CITRIC**  
**ACID ORAL SOLUTION USP**  
**3000 MG/2004 MG per 30mL**



See package insert for indications and dosage schedule



Store at controlled room temperature, 20° to 25°C (68° to 77°F). Protect from freezing.  
**\*\*SUGAR FREE\*\***  
**KEEP OUT OF THE REACH OF CHILDREN.**

17856-0595-03      Dosage: 30 mL  
**SODIUM CITRATE/CITRIC**      Qty: 50 CUPS  
**ACID**



GTIN: 00117856059531  
 S/N: 01440201  
 Exp: 12/22/21  
 Lot: 014402



Packaged by: Unit Dose Solutions  
 Morrisville, NC 27560

Distributed by: AtlanticBiologicals Corp,  
 Miami FL 33179

Rev. 09/19

**Call to Reorder: 800.509.7592**

## SODIUM CITRATE AND CITRIC ACID

sodium citrate and citric acid monohydrate solution

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:17856-0595(NDC:0121-0595)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>SODIUM CITRATE</b> (UNII: 1Q73Q2JULR) (ANHYDROUS CITRIC ACID - UNII:XF417D3PSL)	SODIUM CITRATE	500 mg in 5 mL
<b>ANHYDROUS CITRIC ACID</b> (UNII: XF417D3PSL) (ANHYDROUS CITRIC ACID - UNII:XF417D3PSL)	ANHYDROUS CITRIC ACID	334 mg in 5 mL

### Inactive Ingredients

Ingredient Name	Strength
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<b>POLYETHYLENE GLYCOL, UNSPECIFIED</b> (UNII: 3WJQ0SDW1A)	
<b>PROPYLENE GLYCOL</b> (UNII: 6DC9Q167V3)	
<b>WATER</b> (UNII: 059QF0KO0R)	
<b>SODIUM BENZOATE</b> (UNII: OJ245FE5EU)	
<b>SORBITOL</b> (UNII: 506T60A25R)	

Product Characteristics			
<b>Color</b>		<b>Score</b>	
<b>Shape</b>		<b>Size</b>	
<b>Flavor</b>	GRAPE	<b>Imprint Code</b>	
<b>Contains</b>			

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:17856-0595-4	1 in 1 CUP, UNIT-DOSE	04/18/2024	
1	NDC:17856-0595-3	50 in 1 CASE		
1		30 mL in 1 CUP; Type 0: Not a Combination Product		
2	NDC:17856-0595-5	1 in 1 CUP, UNIT-DOSE	04/18/2024	
2	NDC:17856-0595-1	72 in 1 CASE		
2		15 mL in 1 CUP, UNIT-DOSE; Type 0: Not a Combination Product		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
unapproved drug other		01/01/1969	

**Labeler** - ATLANTIC BIOLOGICALS CORP. (047437707)

Establishment			
Name	Address	ID/FEI	Business Operations
ATLANTIC BIOLOGICALS CORP.		047437707	REPACK(17856-0595)