POTASSIUM CITRATE- potassium citrate tablet
Upsher-Smith Laboratories, LLC

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use POTASSIUM CITRATE EXTENDED-RELEASE TABLETS safely and effectively. See full prescribing information for POTASSIUM CITRATE EXTENDED-RELEASE TABLETS.

POTASSIUM CITRATE extended-release tablets for oral use
Initial U.S. Approval: 1985

INDICATIONS AND USAGE
Potassium citrate is a citrate salt of potassium indicated for the management of:
- Renal tubular acidosis (RTA) with calcium stones (1.1)
- Hypocitraturic calcium oxalate nephrolithiasis of any etiology (1.2)
- Uric acid lithiasis with or without calcium stones (1.3)

DOSAGE AND ADMINISTRATION
Objective: To restore normal urinary citrate (greater than 320 mg/day and as close to the normal mean of 640 mg/day as possible), and to increase urinary pH to a level of 6.0 to 7.0.
- Severe hypocitraturia (urinary citrate < 150 mg/day): therapy should be initiated at 60 mEq per day; a dose of 30 mEq two times per day or 20 mEq three times per day with meals or within 30 minutes after meals or bedtime snack (2.2)
- Mild to moderate hypocitraturia (urinary citrate >150 mg/day): therapy should be initiated at 30 mEq per day; a dose of 15 mEq two times per day or 10 mEq three times per day with meals or within 30 minutes after meals or bedtime snack (2.3)

DOSAGE FORMS AND STRENGTHS
Tablets: 5 mEq and 10 mEq (3)

CONTRAINDICATIONS
- Patients with hyperkalemia (or who have conditions predisposing them to hyperkalemia). Such conditions include chronic renal failure, uncontrolled diabetes mellitus, acute dehydration, strenuous physical exercise in unconditioned individuals, adrenal insufficiency, extensive tissue breakdown (4)
- Patients for whom there is cause for arrest or delay in tablet passage through the gastrointestinal tract such as those suffering from delayed gastric emptying, esophageal compression, intestinal obstruction or stricture (4)
- Patients with peptic ulcer disease (4)
- Patients with active urinary tract infection (4)
- Patients with renal insufficiency (glomerular filtration rate of less than 0.7 ml/kg/min) (4)

WARNINGS AND PRECAUTIONS
- Hyperkalemia: In patients with impaired mechanisms for excreting potassium, potassium citrate extended-release tablets administration can produce hyperkalemia and cardiac arrest. Potentially fatal hyperkalemia can develop rapidly and be asymptomatic. The use of potassium citrate extended-release tablets in patients with chronic renal failure, or any other condition which impairs potassium excretion such as severe myocardial damage or heart failure, should be avoided (5.1)
- Gastrointestinal lesions: if there is severe vomiting, abdominal pain or gastrointestinal bleeding, potassium citrate extended-release tablets should be discontinued immediately and the possibility of bowel perforation or obstruction investigated (5.2)

ADVERSE REACTIONS
Some patients may develop minor gastrointestinal complaints such as abdominal discomfort, vomiting, diarrhea, loose bowel movements or nausea. These may be alleviated by taking the dose with meals or snacks or by reducing the dosage (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Upsher-Smith Laboratories, LLC at 1-855-899-9180 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

DRUG INTERACTIONS
The following drug interactions may occur with potassium citrate:
- Potassium-sparing diuretics: concomitant administration should be avoided since the simultaneous administration of these agents can produce severe hyperkalemia (7.1)
Drugs that slow gastrointestinal transit time: These agents (such as anticholinergics) can be expected to increase the gastrointestinal irritation produced by potassium salts (7.2)

--- USE IN SPECIFIC POPULATIONS ---

- Pregnant women: Pregnancy Category C; animal reproduction studies have not been conducted. It is not known whether potassium citrate extended-release tablets can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Potassium citrate extended-release tablets should be given to a pregnant woman only if clearly needed (8.1)
- Nursing mothers: The normal potassium ion content of human milk is about 13 mEq/L. It is not known if potassium citrate extended-release tablets has an effect on this content. Potassium citrate extended-release tablets should be given to a woman who is breast feeding only if clearly needed (8.3)
- Pediatric Use: Safety and effectiveness in children have not been established (8.4)

See 17 for PATIENT COUNSELING INFORMATION. Revised: 6/2017

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   1.2 Hypocitraturic calcium oxalate nephrolithiasis of any etiology
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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Renal tubular acidosis (RTA) with calcium stones
Potassium citrate is indicated for the management of renal tubular acidosis [see Clinical Studies (14.1)].

1.2 Hypocitraturic calcium oxalate nephrolithiasis of any etiology
Potassium citrate is indicated for the management of Hypocitraturic calcium oxalate nephrolithiasis [see Clinical Studies (14.2)].

1.3 Uric acid lithiasis with or without calcium stones
Potassium citrate is indicated for the management of Uric acid lithiasis with or without calcium stones [see Clinical Studies (14.3)].

2 DOSAGE AND ADMINISTRATION

2.1 Dosing Instructions
Treatment with extended release potassium citrate should be added to a regimen that limits salt intake (avoidance of foods with high salt content and of added salt at the table) and encourages high fluid intake (urine volume should be at least two liters per day). The objective of treatment with potassium citrate extended-release tablets is to provide potassium citrate extended-release tablets in sufficient dosage to restore normal urinary citrate (greater than 320 mg/day and as close to the normal mean of 640 mg/day as possible), and to increase urinary pH to a level of 6.0 or 7.0. Monitor serum electrolytes (sodium, potassium, chloride and carbon dioxide), serum creatinine and complete blood counts every four months and more frequently in patients with cardiac disease, renal disease or acidosis. Perform electrocardiograms periodically. Treatment should be discontinued if there is hyperkalemia, a significant rise in serum creatinine or a significant fall in blood hemocrit or hemoglobin.

2.2 Severe Hypocitraturia
In patients with severe hypocitraturia (urinary citrate < 150 mg/day), therapy should be initiated at a dosage of 60 mEq/day (30 mEq two times/day or 20 mEq three times/day with meals or within 30 minutes after meals or bedtime snack). Twenty-four hour urinary citrate and/or urinary pH measurements should be used to determine the adequacy of the initial dosage and to evaluate the effectiveness of any dosage change. In addition, urinary citrate and/or pH should be measured every four months. Doses of potassium citrate extended-release tablets greater than 100 mEq/day have not been studied and should be avoided.

2.3 Mild to Moderate Hypocitraturia
In patients with mild to moderate hypocitraturia (urinary citrate > 150 mg/day) therapy should be initiated at 30 mEq/day (15 mEq two times/day or 10 mEq three times/day within 30 minutes after meals or bedtime snack). Twenty-four hour urinary citrate and/or urinary pH measurements should be used to determine the adequacy of the initial dosage and to evaluate the effectiveness of any dosage change. Doses of potassium citrate extended-release tablets greater than 100 mEq/day have not been studied and should be avoided.
3 DOSAGE FORMS AND STRENGTHS

- 5 mEq tablets are uncoated, modified ball-shaped, and tan to yellowish in color. Each 5 mEq tablet is debossed with "USL" on one side and "070" on the other side.
- 10 mEq tablets are uncoated, elliptical-shaped, and tan to yellowish in color. Each 10 mEq tablet is debossed with "USL" on one side and "071" on the other side.

4 CONTRAINDICATIONS

Potassium citrate extended-release tablets are contraindicated:

- In patients with hyperkalemia (or who have conditions pre-disposing them to hyperkalemia), as a further rise in serum potassium concentration may produce cardiac arrest. Such conditions include: chronic renal failure, uncontrolled diabetes mellitus, acute dehydration, strenuous physical exercise in unconditioned individuals, adrenal insufficiency, extensive tissue breakdown or the administration of a potassium-sparing agent (such as triamterene, spironolactone or amiloride).
- In patients in whom there is cause for arrest or delay in tablet passage through the gastrointestinal tract, such as those suffering from delayed gastric emptying, esophageal compression, intestinal obstruction or stricture, or those taking anticholinergic medication.
- In patients with peptic ulcer disease because of its ulcerogenic potential.
- In patients with active urinary tract infection (with either urea-splitting or other organisms, in association with either calcium or struvite stones). The ability of potassium citrate extended-release tablets to increase urinary citrate may be attenuated by bacterial enzymatic degradation of citrate. Moreover, the rise in urinary pH resulting from potassium citrate extended-release tablets therapy might promote further bacterial growth.
- In patients with renal insufficiency (glomerular filtration rate of less than 0.7 ml/kg/min), because of the danger of soft tissue calcification and increased risk for the development of hyperkalemia.

5 WARNINGS AND PRECAUTIONS

5.1 Hyperkalemia

In patients with impaired mechanisms for excreting potassium, potassium citrate extended-release tablets administration can produce hyperkalemia and cardiac arrest. Potentially fatal hyperkalemia can develop rapidly and be asymptomatic. The use of potassium citrate extended-release tablets in patients with chronic renal failure, or any other condition which impairs potassium excretion such as severe myocardial damage or heart failure, should be avoided. Closely monitor for signs of hyperkalemia with periodic blood tests and ECGs.

5.2 Gastrointestinal Lesions

Because of reports of upper gastrointestinal mucosal lesions following administration of potassium chloride (wax-matrix), an endoscopic examination of the upper gastrointestinal mucosa was performed in 30 normal volunteers after they had taken glycopyrrolate 2 mg p.o. t.i.d., potassium citrate extended-release tablets 95 mEq/day, wax-matrix potassium chloride 96 mEq/day or wax-matrix placebo, in thrice daily schedule in the fasting state for one week. Potassium citrate extended-release tablets and the wax-matrix formulation of potassium chloride were indistinguishable but both were significantly more irritating than the wax-matrix placebo. In a subsequent, similar study, lesions were less severe when glycopyrrolate was omitted.

Solid dosage forms of potassium chlorides have produced stenotic and/or ulcerative lesions of the small bowel and deaths. These lesions are caused by a high local concentration of potassium ions in the region of the dissolving tablets, which injured the bowel. In addition, perhaps because wax-matrix preparations are not enteric-coated and release some of their potassium content in the stomach, there have been reports of upper gastrointestinal bleeding associated with these products. The frequency of gastrointestinal lesions with wax-matrix potassium chloride products is estimated at one per 100,000
Experience with potassium citrate extended-release tablets is limited, but a similar frequency of gastrointestinal lesions should be anticipated. If there is severe vomiting, abdominal pain or gastrointestinal bleeding, potassium citrate extended-release tablets should be discontinued immediately and the possibility of bowel perforation or obstruction investigated.

6 ADVERSE REACTIONS

6.1 Postmarketing Experience

Some patients may develop minor gastrointestinal complaints during potassium citrate extended-release tablets therapy, such as abdominal discomfort, vomiting, diarrhea, loose bowel movements or nausea. These symptoms are due to the irritation of the gastrointestinal tract, and may be alleviated by taking the dose with meals or snacks, or by reducing the dosage. Patients may find intact matrices in their feces.

7 DRUG INTERACTIONS

7.1 Potential Effects of Potassium citrate on Other Drugs

Potassium-sparing Diuretics: Concomitant administration of potassium citrate extended-release tablets and a potassium-sparing diuretic (such as triamterene, spironolactone or amiloride) should be avoided since the simultaneous administration of these agents can produce severe hyperkalemia.

7.2 Potential Effects of Other Drugs on Potassium citrate

Drugs that slow gastrointestinal transit time: These agents (such as anticholinergics) can be expected to increase the gastrointestinal irritation produced by potassium salts.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C

Animal reproduction studies have not been conducted. It is also not known whether potassium citrate extended-release tablets can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Potassium citrate extended-release tablets should be given to a pregnant woman only if clearly needed.

8.3 Nursing Mothers

The normal potassium ion content of human milk is about 13 mEq/L. It is not known if potassium citrate extended-release tablets has an effect on this content. Potassium citrate extended-release tablets should be given to a woman who is breast feeding only if clearly needed.

8.4 Pediatric Use

Safety and effectiveness in children have not been established.

10 OVERDOSAGE

Treatment of Overdosage: The administration of potassium salts to persons without predisposing conditions for hyperkalemia rarely causes serious hyperkalemia at recommended dosages. It is important to recognize that hyperkalemia is usually asymptomatic and may be manifested only by an increased serum potassium concentration and characteristic electrocardiographic changes (peaking of T-wave, loss of P-wave, depression of S-T segment and prolongation of the QT interval). Late
manifestations include muscle paralysis and cardiovascular collapse from cardiac arrest.

Treatment measures for hyperkalemia include the following:

1. Patients should be closely monitored for arrhythmias and electrolyte changes.
2. Elimination of medications containing potassium and of agents with potassium-sparing properties such as potassium-sparing diuretics, ARBs, ACE inhibitors, NSAIDs, certain nutritional supplements and many others.
3. Elimination of foods containing high levels of potassium such as almonds, apricots, bananas, beans (lima, pinto, white), cantaloupe, carrot juice (canned), figs, grapefruit juice, halibut, milk, oat bran, potato (with skin), salmon, spinach, tuna and many others.
4. Intravenous calcium gluconate if the patient is at no risk or low risk of developing digitalis toxicity.
5. Intravenous administration of 300 to 500 mL/hr of 10% dextrose solution containing 10 to 20 units of crystalline insulin per 1,000 mL.
6. Correction of acidosis, if present, with intravenous sodium bicarbonate.
7. Hemodialysis or peritoneal dialysis.
8. Exchange resins may be used. However, this measure alone is not sufficient for the acute treatment of hyperkalemia.

Lowering potassium levels too rapidly in patients taking digitalis can produce digitalis toxicity.

11 DESCRIPTION

Potassium citrate is a citrate salt of potassium. Its empirical formula is \( \text{K}_3\text{C}_6\text{H}_5\text{O}_7 \cdot \text{H}_2\text{O} \), and it has the following chemical structure:

\[
\text{H}_2\text{O} \quad \text{C} \quad \text{COOK} \quad \cdot \quad \text{H}_2\text{O} \\
\text{CH}_2 \quad \text{COOK}
\]

Potassium citrate extended-release tablets are yellowish to tan, oral wax-matrix tablets, containing either 5 mEq (540 mg) potassium citrate or 10 mEq (1080 mg) potassium citrate each. Inactive ingredients include carnauba wax and magnesium stearate.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

When potassium citrate extended-release tablets are given orally, the metabolism of absorbed citrate produces an alkaline load. The induced alkaline load in turn increases urinary pH and raises urinary citrate by augmenting citrate clearance without measurably altering ultrafilterable serum citrate. Thus, potassium citrate extended-release tablets therapy appears to increase urinary citrate principally by modifying the renal handling of citrate, rather than by increasing the filtered load of citrate. The increased filtered load of citrate may play some role, however, as in small comparisons of oral citrate and oral bicarbonate, citrate had a greater effect on urinary citrate.

In addition to raising urinary pH and citrate, potassium citrate extended-release tablets increase urinary potassium by approximately the amount contained in the medication. In some patients, potassium citrate extended-release tablets cause a transient reduction in urinary calcium.

The changes induced by potassium citrate extended-release tablets produce urine that is less conducive
to the crystallization of stone-forming salts (calcium oxalate, calcium phosphate and uric acid). Increased citrate in the urine, by complexing with calcium, decreases calcium ion activity and thus the saturation of calcium oxalate. Citrate also inhibits the spontaneous nucleation of calcium oxalate and calcium phosphate (brushite). The increase in urinary pH also decreases calcium ion activity by increasing calcium complexation to dissociated anions. The rise in urinary pH also increases the ionization of uric acid to the more soluble urate ion.

Potassium citrate extended-release tablets therapy does not alter the urinary saturation of calcium phosphate, since the effect of increased citrate complexation of calcium is opposed by the rise in pH-dependent dissociation of phosphate. Calcium phosphate stones are more stable in alkaline urine. In the setting of normal renal function, the rise in urinary citrate following a single dose begins by the first hour and lasts for 12 hours. With multiple doses the rise in citrate excretion reaches its peak by the third day and averts the normally wide circadian fluctuation in urinary citrate, thus maintaining urinary citrate at a higher, more constant level throughout the day. When the treatment is withdrawn, urinary citrate begins to decline toward the pre-treatment level on the first day.

The rise in citrate excretion is directly dependent on the potassium citrate extended-release tablets dosage. Following long-term treatment, potassium citrate extended-release tablets at a dosage of 60 mEq/day raises urinary citrate by approximately 400 mg/day and increases urinary pH by approximately 0.7 units. In patients with severe renal tubular acidosis or chronic diarrheal syndrome where urinary citrate may be very low (<100 mg/day), potassium citrate extended-release tablets may be relatively ineffective in raising urinary citrate. A higher dose of potassium citrate extended-release tablets may therefore be required to produce a satisfactory citraturic response. In patients with renal tubular acidosis in whom urinary pH may be high, potassium citrate extended-release tablets produce a relatively small rise in urinary pH.

14 CLINICAL STUDIES

The pivotal potassium citrate extended-release tablets trials were non-randomized and non-placebo controlled where dietary management may have changed coincidentally with pharmacological treatment. Therefore, the results as presented in the following sections may overstate the effectiveness of the product.

14.1 Renal tubular acidosis (RTA) with calcium stones

The effect of oral potassium citrate therapy in a non-randomized, non-placebo controlled clinical study of five men and four women with calcium oxalate/calcium phosphate nephrolithiasis and documented incomplete distal renal tubular acidosis was examined. The main inclusion criterion was a history of stone passage or surgical removal of stones during the 3 years prior to initiation of potassium citrate therapy. All patients began alkali treatment with 60 to 80 mEq potassium citrate daily in 3 or 4 divided doses. Throughout treatment, patients were instructed to stay on a sodium restricted diet (100 mEq/day) and to reduce oxalate intake (limited intake of nuts, dark roughage, chocolate and tea). A moderate calcium restriction (400 to 800 mg/day) was imposed on patients with hypercalciuria.

X-rays of the urinary tract, available in all patients, were reviewed to determine presence of pre-existing stones, appearance of new stones, or change in the number of stones.

Potassium citrate therapy was associated with inhibition of new stone formation in patients with distal tubular acidosis. Three of the nine patients continued to pass stones during the on-treatment phase. While it is likely that these patients passed pre-existing stones during therapy, the most conservative assumption is that the passed stones were newly formed. Using this assumption, the stone-passage remission rate was 67%. All patients had a reduced stone formation rate. Over the first 2 years of treatment, the on-treatment stone formation rate was reduced from 13±27 to 1±2 per year.

14.2 Hypocitraturic calcium oxalate nephrolithiasis of any etiology
Eighty-nine patients with hypocitraturic calcium nephrolithiasis or uric acid lithiasis with or without calcium nephrolithiasis participated in this non-randomized, non-placebo controlled clinical study. Four groups of patients were treated with potassium citrate: Group 1 was comprised of 19 patients, 10 with renal tubular acidosis and 9 with chronic diarrheal syndrome, Group 2 was comprised of 37 patients, 5 with uric acid stones alone, 6 with uric acid lithiasis and calcium stones, 3 with type 1 absorptive hypercalciuria, 9 with type 2 absorptive hypercalciuria and 14 with hypocitraturia. Group 3 was comprised of 15 patients with history of relapse on other therapy and Group 4 was comprised of 18 patients, 9 with type 1 absorptive hypercalciuria and calcium stones, 1 with type 2 absorptive hypercalciuria and calcium stones, 2 with hyperuricosuric calcium oxalate nephrolithiasis, 4 with uric acid lithiasis accompanied by calcium stones and 2 with hypocitraturia and hyperuricemia accompanied by calcium stones. The dose of potassium citrate ranged from 30 to 100 mEq per day, and usually was 20 mEq administered orally 3 times daily. Patients were followed in an outpatient setting every 4 months during treatment and were studied over a period from 1 to 4.33 years. A three-year retrospective pre-study history for stone passage or removal was obtained and corroborated by medical records. Concomitant therapy (with thiazide or allopurinol) was allowed if patients had hypercalciuria, hyperuricosuria or hyperuricemia. Group 2 was treated with potassium citrate alone.

In all groups, treatment that included potassium citrate was associated with a sustained increase in urinary citrate excretion from subnormal values to normal values (400 to 700 mg/day), and a sustained increase in urinary pH from 5.6 to 6.0 to approximately 6.5. The stone formation rate was reduced in all groups as shown in Table 1.

Table 1. Effect of Potassium Citrate Extended-release Tablets In Patients With Calcium Oxalate Nephrolithiasis.

<table>
<thead>
<tr>
<th>Stones Formed Per Year</th>
<th>Group</th>
<th>Baseline</th>
<th>On Treatment</th>
<th>Remission*</th>
<th>Any Decrease</th>
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<td></td>
<td>I (n=19)</td>
<td>12 ± 30</td>
<td>0.9 ± 1.3</td>
<td>58%</td>
<td>95%</td>
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<td>II (n=37)</td>
<td>1.2 ± 2</td>
<td>0.4 ± 1.5</td>
<td>89%</td>
<td>97%</td>
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<td>III (n=15)</td>
<td>4.2 ± 7</td>
<td>0.7 ± 2</td>
<td>67%</td>
<td>100%</td>
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<td>IV (n=18)</td>
<td>3.4 ± 8</td>
<td>0.5 ± 2</td>
<td>94%</td>
<td>100%</td>
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<tr>
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<td>Total (n=89)</td>
<td>4.3 ±15</td>
<td>0.6 ±2</td>
<td>80%</td>
<td>98%</td>
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* Remission defined as "the percentage of patients remaining free of newly formed stones during treatment".

14.3 Uric acid lithiasis with or without calcium stones

A long-term non-randomized, non-placebo controlled clinical trial with eighteen adult patients with uric acid lithiasis participated in the study. Six patients formed only uric acid stones, and the remaining 12 patients formed mixed stones containing both uric acid and calcium salts or formed both uric acid stones (without calcium salts) and calcium stones (without uric acid) on separate occasions. Eleven of the 18 patients received potassium citrate alone. Six of the 7 other patients also received allopurinol for hyperuricemia with gouty arthritis, symptomatic hyperuricemia, or hyperuricosuria. One patient also received hydrochlorothiazide because of unclassified hypercalciuria. The main inclusion criterion was a history of stone passage or surgical removal of stones during the 3 years prior to initiation of potassium citrate therapy. All patients received potassium citrate at a dosage of 30 to 80 mEq/day in three-to-four divided doses and were followed every four months for up to 5 years.

While on potassium citrate treatment, urinary pH rose significantly from a low value of 5.3 ± 0.3 to within normal limits (6.2 to 6.5). Urinary citrate which was low before treatment rose to the high normal range and only one stone was formed in the entire group of 18 patients.

15 REFERENCES


16 HOW SUPPLIED/STORAGE AND HANDLING

Potassium citrate extended-release tablets 5 mEq are uncoated, tan to yellowish in color, modified ball shaped, debossed with "USL" on one side and "070" on the other, supplied in bottles as:

NDC 0245-0070-11     Bottle of 100

Potassium citrate extended-release tablets 10 mEq are uncoated, tan to yellowish in color, elliptical shaped, debossed with "USL" on one side and "071" on the other, supplied in bottles as:

NDC 0245-0071-11     Bottle of 100

*Storage:* Store in a tight container.

17 PATIENT COUNSELING INFORMATION

17.1 Administration of Drug

Tell patients to take each dose without crushing, chewing or sucking the tablet.

Tell patients to take this medicine only as directed. This is especially important if the patient is also taking both diuretics and digitalis preparations.

Tell patients to check with the doctor if there is trouble swallowing tablets or if the tablet seems to stick in the throat.

Tell patients to check with the doctor at once if tarry stools or other evidence of gastrointestinal bleeding is noticed.

Tell patients that their doctor will perform regular blood tests and electrocardiograms to ensure safety.

Distributed by

**UPSHER-SMITH LABORATORIES, LLC**
Maple Grove, MN 55369

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L007011R0617

**PRINCIPAL DISPLAY PANEL - 540 mg Tablet Bottle Label**

NDC 0245-0070-11

**Potassium Citrate**

**Extended-release**
Tables

540 mg
(5 mEq per tablet)
100 Tablets
Rx only

UPSHER-SMITH

PRINCIPAL DISPLAY PANEL - 1080 mg Bottle Label

NDC 0245-0071-11

Potassium Citrate
Extended-release Tablets

1080 mg
(10 mEq per tablet)
100 Tablets
Rx only

UPSHER-SMITH
# POTASSIUM CITRATE
potassium citrate tablet

## Product Information

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## Active Ingredient/Active Moiety

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## Packaging

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### POTASSIUM CITRATE

potassium citrate tablet

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<td>ORAL</td>
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</tbody>
</table>

### Active Ingredient/Active Moiety

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium citrate (UNII: EE90ONI6FF) (anhydrous citric acid - UNII:XF417D3PSL)</td>
<td>potassium citrate</td>
<td>10 meq</td>
</tr>
</tbody>
</table>

### Inactive Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>carnauba wax (UNII: R12CBM0EIZ)</td>
<td></td>
</tr>
<tr>
<td>magnesium stearate (UNII: 70097M6I30)</td>
<td></td>
</tr>
</tbody>
</table>

### Product Characteristics

<table>
<thead>
<tr>
<th>Color</th>
<th>Score</th>
<th>Shape</th>
<th>Size</th>
<th>Flavor</th>
<th>Imprint Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>YELLOW (yellow)</td>
<td>no score</td>
<td>OVAL (OVAL)</td>
<td>19mm</td>
<td></td>
<td>USL;071</td>
</tr>
</tbody>
</table>

### Packaging

<table>
<thead>
<tr>
<th>#</th>
<th>Item Code</th>
<th>Package Description</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NDC:0245-0071-11</td>
<td>100 in 1 BOTTLE; Type 0: Not a Combination Product</td>
<td>09/01/2006</td>
<td></td>
</tr>
</tbody>
</table>

### Marketing Information

<table>
<thead>
<tr>
<th>Marketing Category</th>
<th>Application Number or Monograph Citation</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDA</td>
<td>NDA019071</td>
<td>09/01/2006</td>
<td></td>
</tr>
</tbody>
</table>

### Labeler - Upsher-Smith Laboratories, LLC (047251004)

### Establishment
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>ID/FEI</th>
<th>Business Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upsher-Smith Laboratories, LLC</td>
<td></td>
<td>047251004</td>
<td>ANALYSIS(0245-0070, 0245-0071), RELABEL(0245-0070, 0245-0071), REPACK(0245-0070, 0245-0071)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Establishment</th>
<th>Name</th>
<th>Address</th>
<th>ID/FEI</th>
<th>Business Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mission Pharmacal Company</td>
<td></td>
<td>927726893</td>
<td>MANUFACTURE(0245-0070, 0245-0071), LABEL(0245-0070, 0245-0071), PACK(0245-0070, 0245-0071)</td>
</tr>
</tbody>
</table>

Revised: 9/2017

Upsher-Smith Laboratories, LLC