



KetoCitra™ Medical Food
Ready-to-Mix Powder

KetoCitra™ produces a specially formulated solution containing an ionic mixture of D,L-beta-hydroxybutyrate, citrate, and inorganic electrolytes (potassium, calcium, magnesium).

Flavor: Lemonade (naturally flavored)

Size: 13.76 oz (390 g) for 60 servings or one month supply*

Serving Size: Two rounded scoops (6.5 g). Recommended two servings (four rounded scoops) per day for a total of 13 g/day.

KetoCitra™ is a medical food for the daily dietary management of individuals with mild to moderate stages (CKD stages 1-3) of autosomal-dominant polycystic kidney disease (ADPKD) and is intended to be used under medical supervision. Please carefully read the directions for use, warnings and contraindications prior to using this product. KetoCitra™ is not intended for individuals with advanced ADPKD (CKD stages 4-5), hyperkalemia (high potassium levels), or those with severely impaired renal function or impaired electrolyte homeostasis. **Prior to using KetoCitra™ for the first time your physician should check your blood electrolyte status.**

Made in the USA of imported and domestic ingredients under strict cGMP standards.

Manufactured for Santa Barbara Nutrients, Inc.

Santa Barbara, CA 93106, USA · 805-272-0029

Visit SantaBarbaraNutrients.com for more information



Covered under U.S. Pat. No. 11,013,705 & U.S. and foreign patents pending

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NOTICE: THIS PRODUCT IS INTENDED TO BE USED UNDER THE SUPERVISION OF A PHYSICIAN

Product Features

Per day, two servings (four rounded scoops; total 13g/day) of KetoCitra™ provide

- 5.3 g of Beta-Hydroxybutyrate (BHB)
- 3.5 g Citrate
- 600 mg Potassium
- 300 mg Calcium
- 250 mg Magnesium
- 51 mEq Alkaline Base Load

Non-GMO
Gluten Free
Natural Flavor
Ketogenic Diet-Friendly

Negligible Sodium
Dairy Free
Naturally Derived Sweetener

Vegan
Soy Free
Negligible Sugar
Kidney Friendly

Description: KetoCitra™ is a specially formulated medical food containing a mixture of D,L-beta-hydroxybutyrate (BHB), citrate and mineral salts (potassium, calcium, magnesium), for the dietary management of individuals with mild to moderate ADPKD (CKD stages 1-3). ADPKD is a genetically inherited disease that is characterized by metabolic defects, renal cyst growth, progressive chronic kidney disease and other serious complications. Metabolic abnormalities in renal cells in ADPKD lead to preference of glucose as energy source to sustain disease progression over the ketone body BHB (1-15). Additional metabolic abnormalities in ADPKD lead to metabolic acidosis accompanied by acidification of the urine, and low urinary citrate levels (hypocitraturia). Furthermore, individuals with ADPKD frequently have high levels of uric acid (hyperuricemia) and even clinical gout. Altogether, these conditions may increase the risk for kidney stones (nephrolithiasis) and associated renal injury which may further accelerate disease progression (16-27). KetoCitra™ provides specifically modified nutritional support to address the unique nutrient needs of individuals with ADPKD by increasing circulating levels of the ketone body BHB, and normalizing urine pH and urinary citrate.

Due to these disease-specific metabolic abnormalities, conventional, carbohydrate-predominant, diets consumed by most individuals in industrialized societies may worsen the progression of ADPKD. High carbohydrate intake leads to high blood glucose and insulin levels, overweight, obesity, metabolic syndrome, and diabetes which have been associated with more rapid progression of ADPKD

(7, 15, 28, 29). Such diets lead to persistently high levels of blood glucose and low levels of blood BHB. Dietary intake of oxalate, inorganic phosphate and purines - in combination with low urine pH and hypocitraturia found in ADPKD - increase the risk of kidney stones (nephrolithiasis) due to renal tubular calcium or uric acid crystal precipitation that may cause renal injury and exacerbate ADPKD progression (16, 25).

Individuals with ADPKD may benefit from nutritional management with the goal to address these metabolic abnormalities by raising circulating levels of the natural ketone body BHB to healthy levels, and by supporting a normal, neutral urine pH and normal urine citrate levels. KetoCitra™ is intended to facilitate the nutritional management of individuals with ADPKD by providing a preferred cellular energy substrate, the ketone BHB, instead of problematic glucose, and by providing citrate and an alkali base load. KetoCitra™ is formulated to be kidney-safe by avoiding sodium and by providing BHB as a blend of mineral salts that avoids excessive intake of any one mineral. These minerals are carefully chosen to provide additional nutritional support. Calcium and magnesium - especially when taken with meals - bind food-derived oxalate and inorganic phosphates and lower their gastrointestinal absorption, thereby further lowering the risk, through dietary intervention, of renal precipitation of calcium oxalate and calcium phosphate microcrystals that may accelerate ADPKD disease progression (30-32).

These distinctive nutritional requirements cannot feasibly be met by altering the normal diet because ADPKD is a chronic, slowly progressive disease that

requires management for years or decades. Attempting to modify the diet alone to address the distinctive nutritional requirements of ADPKD is not feasible. Also, circulating BHB levels can be raised by extended fasting or by using a strict ketogenic diet. However, such extensive dietary changes are very difficult to adhere to for most individuals, especially in the long term, and may also increase the risk of malnutrition, kidney stone formation, and other adverse effects (33–38). Increased citrate intake can be achieved by consuming lemon juice or lemonade (39, 40). However, the required large amounts make this unfeasible in the long term, and consumption of large quantities of lemon juice/lemonade may lead to excessive sugar intake and increased risk of tooth erosion (39, 41–43).

KetoCitra™ can be taken by itself without any other changes to the normal diet. However, it is recommended to use KetoCitra™ as part of an overall nutritional management program in conjunction with sensible dietary changes under medical supervision.

KetoCitra™ has been developed, labeled, and should be used in accordance with the legal definition of "Medical Food", as defined in section 5(b) of the Orphan Drug Act (21 U.S.C. 360ee (b) (3)) and incorporated into Food and Drug Administration (FDA) regulations: "a food which is formulated to be consumed or administered enterally under the supervision of a physician and which is intended for the specific dietary management of a disease or condition for which distinctive nutritional requirements, based on recognized scientific principles, are established by medical evaluation." The FDA does not evaluate the safety or health benefits of medical foods prior to marketing, and there is no FDA premarket review or clearance of medical foods.

Medical foods, like KetoCitra™, are specially formulated foods intended for the dietary management of individuals with certain medical conditions with distinctive nutritional requirements, which cannot be managed by altering a normal diet. Medical foods must be used under the supervision of a physician.

Ingredients: All ingredients in KetoCitra™ are Generally Recognized as Safe (GRAS) under their conditions of use. Please refer to the Nutrition Information Table below for additional information and the full list of ingredients.

Macronutrient Profile: KetoCitra™ does not contain fat or protein. An insignificant amount of carbohydrate is contributed by the natural flow agent (soluble corn fiber) and by the natural flavoring (lemon extract and lemon juice concentrate combined with gum acacia). 15 kcal (Calories) of energy per recommended serving (6.5 g) are provided in the form of citrate from citric acid and beta-hydroxybutyrate (BHB), a naturally occurring ketone body used as an energy substrate by nearly all tissues in the body including muscle, brain and heart.

D,L-Beta-Hydroxybutyrate (BHB): KetoCitra™ contains mineral salt forms of the ketone body BHB as a racemic mixture. KetoCitra™ provides a blend of mineral salts (potassium, calcium, and magnesium) in order to deliver the maximum amount of BHB while minimizing the total content of any one mineral.

Citrate: KetoCitra™ provides citrate in the form of citric acid. Upon dissolving KetoCitra™ in water, the citric acid is partially neutralized by the other ingredients of KetoCitra™ to provide a balanced overall level of acidity.

Minerals: KetoCitra™ contains a blend of important electrolytes (potassium, calcium, and magnesium). KetoCitra™ is formulated to contain only negligible amounts of sodium because dietary sodium intake is associated with accelerated disease progression in ADPKD and other forms of chronic kidney disease (44, 45). The form of citric acid used in KetoCitra™ and the natural lemon flavor contribute a negligible amount of sodium. Each recommended serving of KetoCitra™ is formulated to provide 51 mEq of alkaline base in the form of mineral salts of organic acids.

Flavoring and Sweetener: No artificial flavors or sweeteners are used in KetoCitra™. To avoid introducing sugar which would raise blood glucose and insulin and antagonize ketosis, KetoCitra™ uses a naturally derived sweetener from the leaves of the plant species *Stevia rebaudiana*. KetoCitra™ is pleasantly flavored using a blend of dehydrated natural lemon extract and lemon juice

concentrate absorbed on gum acacia, a type of natural fiber commonly derived from a species of acacia tree.

Soluble Corn Fiber: To preserve the powder consistency and prevent clumping, KetoCitra™ contains soluble corn fiber, a non-digestible carbohydrate that meets the FDA definition of dietary fiber. This dietary fiber is not digested in the same manner as cornstarch. Instead, it is fermented by microflora in the colon. (46, 47). The soluble corn fiber used in KetoCitra™ is non-GMO.

No unnecessary ingredients included: Many ingredients that are commonly found in processed foods or dietary supplements may be renal stressors and potentially harmful to individuals with ADPKD. KetoCitra™ is specially formulated with kidney-safety in mind and avoids any unnecessary fillers, bulking agents or other artificial or potentially harmful ingredients.

- No artificial flavors.
- No colorings.
- No whiteners.
- No phosphates.
- No preservatives.

Nutrition Information and Complete Ingredient Listing

Nutrition Information			
60 Servings per Container Recommended Serving size: 2 rounded scoops (6.5g)			
	Per serving size (2 rounded scoops, 6.5g)	Per daily servings (4 rounded scoops, 13g)	Per 100g Powder
Calories (kcal)	15	30	231
Total Fat	0g	0g	0g
Total Carbohydrates	<1g	<1.5g	<10g
Dietary Fiber	0.4g	0.8g	6g
Sugars	<0.1g	<0.1g	<0.5g
Protein	0g	0g	0g
Beta-Hydroxybutyrate	2.65g	5.3g	41g
Citrate	1.75g	3.5g	27g
Potassium	300mg	600mg	4.6g
Calcium	150mg	300mg	2.3g
Magnesium	125mg	250mg	1.9g
Sodium	<10mg	<15mg	<100mg
Base Equivalents	25.5 mEq	51 mEq	392 mEq

Ingredients: Citric Acid, Magnesium Beta-Hydroxybutyrate, Potassium Beta-Hydroxybutyrate, Calcium Beta-Hydroxybutyrate, Soluble Corn Fiber, Natural Lemon Flavor (Arabic Gum, Lemon Extract, Lemon Juice Concentrate), Purified Stevia Leaf Extract (Reb A 97%), Monosodium Citrate**

**Contributes a negligible amount of sodium

Directions: The recommended adult serving amount is two rounded scoops, taken two times per day, for a total of four rounded scoops (13 g/day). Twice per day, shake or stir vigorously two rounded scoops (approx. 6.5 g) of KetoCitra™ with 8-16 oz of water and drink slowly (during one hour or more), preferably with a meal. Once reconstituted, any unused mixture should be refrigerated and consumed within 24 hours.

Your physician may recommend a different serving size or frequency based on clinical assessment, including your blood electrolyte levels. This may affect the number of servings per container. First time users begin with half serving (one rounded scoop, approx. 3.3 g) twice per day for one week to assess tolerance and gradually increase to recommended serving size. In case of gastrointestinal discomfort or any other signs of intolerance, reduce serving size or discontinue use of product, and consult your physician.

Contents sold by weight, not volume. Some settling may occur during shipping and handling. Serving size is measured by weight with a scoop included for your convenience. The amount of product contained in two rounded scoops may be above or below 6.5 grams due to variations in handling and product density.

Serving Size Determination: KetoCitra™ is to be used under medical supervision. Prior to using KetoCitra™ for the first time, your healthcare practitioner should review your metabolic blood panel, renal function, and body's ability to handle the electrolytes contained in KetoCitra™ (potassium, calcium, magnesium). The healthcare practitioner will need to consider patient body weight, medical conditions, medications, dietary intake, and renal function when determining the serving size and frequency.

The serving size may be increased or decreased depending on your level of renal function and other medical considerations. Increasing the serving size will provide a higher intake of BHB and citrate but will also lead to a higher intake of electrolytes. It is recommended that your healthcare practitioner regularly monitors your blood levels of potassium, calcium and magnesium, and may adjust the serving size of KetoCitra™ accordingly.

Urine pH: KetoCitra™ is intended to help normalize the urine pH (acidity). Metabolic changes in individuals with ADPKD frequently lead to abnormally acidic urine with a low pH value that may increase the risk of renal crystal precipitation which may detrimentally affect ADPKD progression. Normal, well-balanced urine pH is in the neutral range of pH 6.0-7.0. Your healthcare practitioner should monitor your urine pH and may adjust the serving size of KetoCitra™ accordingly. You may wish to utilize the pH measuring strips included with KetoCitra™ to regularly monitor your urine pH and communicate the values to your healthcare practitioner.

KetoCitra™ should not be used together with other urine alkalinizing agents such as sodium bicarbonate unless recommended by your physician.

Warnings and Contraindications:

- KetoCitra™ contains significant amounts of the electrolytes potassium, calcium, and magnesium and is not suitable for individuals with advanced stage chronic kidney disease or other causes of severely impaired renal function or impaired electrolyte homeostasis.
- The potassium contained in KetoCitra™ may increase blood potassium levels in individuals with hyperkalemia. KetoCitra™ is contraindicated in patients with hyperkalemia (or who have conditions predisposing them to hyperkalemia), as a further rise in serum potassium concentration may become dangerous. Such conditions include chronic renal failure, uncontrolled diabetes mellitus, acute dehydration, extensive tissue breakdown, or the administration of a potassium-sparing diuretic.

Before using KetoCitra™, a qualified healthcare practitioner should review your blood electrolyte levels and determine if there is any predisposition to, or any history of hyperkalemia (high blood potassium level). Do not take KetoCitra™ if you are told by your doctor that you need to restrict the dietary intake of potassium.

- KetoCitra™ is contraindicated in patients with active urinary tract infection. Do not use KetoCitra™ if you have a urinary tract infection. The ability of KetoCitra™ to increase urinary citrate may be attenuated by bacterial enzymatic degradation of citrate. Moreover, the rise in urinary pH resulting from taking KetoCitra™ might promote further bacterial growth.
- Some people using KetoCitra™ might experience stomach upset, diarrhea, constipation, or stomach pain. These side effects are more likely to happen in first-time users or when very high serving sizes are used. First-time users should start with half the recommended serving size and only increase the serving size after tolerance is established. Taking KetoCitra™ with meals is recommended.
- KetoCitra™ is not recommended for use by pregnant or nursing women unless recommended by your physician.
- Use of KetoCitra™ may impact how some drugs are metabolized. Talk to your doctor about all medications you are taking prior to beginning use of the product.
- Allergens: KetoCitra™ is free from all 8 major food allergens, (milk, eggs, fish, crustacean shellfish, tree nuts, peanuts, wheat and soybeans), confirmed by a combination of direct finished product testing for gluten, dairy and soy for each batch and rigorous sanitization, storage, and scheduling procedures designed to eliminate cross contamination on shared equipment. These

processes are performed in an FDA-registered facility in accordance with strict current Good Manufacturing Practices (cGMPs) and are independently verified by a qualified third-party auditor and certifier.

- Not to be used as sole-source nutrition.

Tamper Evident: Do not use if safety seal is missing or broken or if package is damaged or open.

Storage: Keep container with dry powder tightly closed in a cool, dry place. The powder attracts moisture from the air. Container contains a packet of desiccant to prevent clumping by moisture. Please keep the desiccant packet in the container for the entire time. Do not eat the desiccant.

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