

Power Fuel

Mitochondrial Energetics, Cellular Optimizer



Cardio

Energy

Endurance

NutritionalFrontiers.com
(412) 922-2566



Power Fuel

Available in 30 Powder Servings (Orange or Berry Flavor)

Power Fuel is a vegetarian, gluten-free, powdered, orange-flavored formula designed to support mitochondrial function to help manage fatigue and support cellular activity.*

Reformulated to include electrolytes, Power Fuel Supports:

- Energy via the production and recycling of ATP*
- Exercise tolerance*
- Cardiovascular output*
- Muscle strength and recovery*
- Oxygen utilization and physical stamina*
- Athletic performance and endurance*

About ATP and Mitochondria

ATP (adenosine triphosphate) is a high energy molecule in cells. It is generated within the mitochondria. ATP is composed of adenosine (an adenine ring and a ribose sugar) and three phosphate groups. When in use ATP is broken down to ADP (adenosine diphosphate) to provide energy. Energy from the breakdown of ATP drives many important reactions in the cell. This means that ATP needs to be constantly produced, especially during exercise.

Mitochondria are tiny organelles found in every cell in the body. They are known as the "powerhouse of the cell" and are responsible for creating more than 90% of cellular energy. Mitochondria are necessary for the body to sustain life and support growth. They are composed of tiny packages of enzymes that turn nutrients into cellular energy. Mitochondrial failure causes cell injury that leads to cell death. When multiple organ cells die there can be organ failure. In adults, many challenges associated with aging have been found to have defects in mitochondrial function.

About the Ingredients

D-Ribose, a naturally occurring sugar, is an energy-producing substrate of ATP. It is sometimes called the "molecular currency" because of the role it plays in energy transfer. A pilot study shows it to improve energy, sleep, pain intensity, mental clarity, and well-being.

DMG is a metabolic enhancer that supports the immune system and helps the body overcome various forms of stress such as aging, poor oxygen availability, and free radical damage. * Research shows DMG modulates the immune system. DMG was popular with Russian athletes and cosmonauts "owing to its reputed ability to increase endurance and reduce fatigue." DMG also displays free radical scavenging activity and enhancement of the endogenous antioxidant defense system. Furthermore, DMG may have utility in exercise performance by enhancing oxygen utilization during hypoxia and reducing lactic acid build-up in the blood during stressful events.

Coenzyme Q10 is a free radical scavenger and a naturally occurring cofactor in cellular energy as part of the mitochondrial respiratory chain. It is vital to the production of ATP. Oral supplementation with CoQ10 is reported to improve fatigue and physical performance. CoQ10 levels decrease with aging.

L-Carnitine helps restore mitochondrial content. It also plays a role in improving insulin resistance, glucose tolerance, and arterial hypertension.

Malic Acid is an intermediate in the Krebs cycle. It is centrally involved in energy production in muscle cells by generating mitochondrial ATP both under aerobic and hypoxic conditions. It has been studied for its role in the possible improvement of muscle pain in patients with fibromyalgia.

Rhodiola is an adaptogenic herb traditionally used to improve endurance and exercise capacity. Research also shows it helps reduce oxidative stress, enhances mitochondrial function, and protects skeletal muscle from damage.

Bromelain is a proteolytic enzyme derived from pineapple. It is thought to reduce inflammation by inhibiting prostaglandin synthesis. Bromelain is known to reduce inflammation, relieve swelling and discomfort, modulate the immune system, and more!

Protease is a proteolytic enzyme that helps manage muscle soreness following intense exercise by regulating inflammation and white blood cell activity.

Electrolytes (calcium, chloride, chromium, magnesium, phosphorus, potassium, sodium) may enhance muscle recovery after exercise.

Magnesium plays a central role in controlling muscle tone. Muscles cannot relax properly without enough magnesium and low magnesium can cause a buildup of lactic acid.

L-Citrulline is researched and shown to enhance exercise performance, exercise tolerance, and possibly muscle mass.

L-Taurine is an amino acid present in many tissues, especially skeletal muscle. Among its many functions in the body, taurine is anti-inflammatory, antioxidant, stabilizes membranes, and may control muscle metabolism. Taurine ensures normal mitochondrial function.

L-Arginine HCl is a precursor to nitric oxide which regulates blood vessel dilation. Arginine is also a potent antioxidant.

SUPPLEMENT FACTS

Serving Size: 1 Scoop (13.9 g)

Servings Per Container: 30 Scoops

Amount Per Serving

Calcium	150 mg
(As calcium citrate and dicalcium phosphate)	
Chloride (as sodium chloride)	380 mg
Chromium (as chromium nicotinate)	200 mcg
Magnesium (as magnesium bisglycinate chelate)	300 mg
Phosphorus (as dicalcium phosphate)	60 mg
Potassium (as potassium gluconate)	90 mg
Sodium (as sodium chloride)	250 mg
D-Ribose	5000 mg
Bromelain	1000 mg
Protease	1000 mg
L-Carnitine	500 mg
N, N-Dimethylglycine HCl (DMG)	300 mg
L-Citrulline	200 mg
L-Taurine	200 mg
L-Arginine HCl	200 mg
Rhodiola rosea extract	100 mg
(Standardized to 1% salidroside)	
CoQ10	50 mg

Other ingredients: Citric Acid, Sodium Chloride, Natural Flavoring, Malic Acid, Silicon Dioxide, Stevia, Beta Carotene (For Color)

Produced in a facility that also processes soy, fish, shellfish, milk, peanuts, tree nuts, wheat, and eggs.

Suggested Use: As a dietary supplement, mix one scoop with 12 oz. of cold water daily, or as directed by your healthcare practitioner. For workout support, mix one scoop with 12 oz. of cold water before and after your workout.

Warning: If hypoglycemic, diabetic, pregnant or nursing, consult your healthcare practitioner before taking this product.



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This flyer was created on 9/12/2022 APM

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