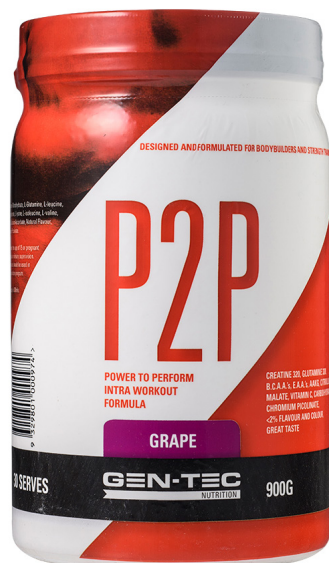




P2P (GRAPE) POWER TO PERFORM

Strength
Lean Muscle Gain, Improved Recovery



NUTRITIONAL INFORMATION		
SERVINGS PER CONTAINER: 30		
SERVING SIZE: 30G (1 ROUNDED SCOOP)		
	30g Serve	Per 100g
ENERGY	494kJ	1540kJ
	118Cal	368Cal
PROTEIN	10.9g	44.4g
FAT	0g	2.3g
CARBOHYDRATE		
- Total	19g	62g
- Sugars	17g	57g
Sodium	12mg	40mg
Potassium	10mg	33mg
Creatine 320	3000mg	10g
Glutamine 320	1800mg	6g
L-isoleucine	330mg	2g
L-leucine	1800mg	6g
L-valine	330mg	2g
Argine Alpha Keto-glutarate	900mg	3g
L-lysine	900mg	3g
L-glycine	1350mg	4.5g
Citrulline Malate	450mg	1.5g
Calcium Ascorbate (Vitamin C)	400mg	1.5g
Chromium Picolinate	50mcg	166mcg

GEN-TEC NUTRITION: P2P (Power to Perform) is an advanced intra-workout formula designed for bodybuilders and strength training athletes. The synergistic blend of Creatine Monohydrate (320), Amino Acids, Carbohydrates and Vitamin C is ideal for individuals with a goal to increase strength, lean muscle mass and improve recovery. P2P also contains Citrulline Malate with Arginine AKG to stimulate Nitric Oxide production and support a muscular pump during resistance and strength training.

Consuming P2P during intensive exercise supplies essential nutrients to the working muscles at this crucial time supporting you to maximize your potential and fuel your Power to Perform. Flavours available; Fresh Apple, Wild Blueberry and Fresh Orange.

Evidence based view on the intra-workout puzzle

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 Nutritionist, Exercise Scientist and Clinical Biochemist

Resistance training (RT) is known to stimulate gains in strength and lean muscle, however to what extent can these gains be acquired is now known to be heavily dependent on nutrient intervention and the timing of these nutrients. By now everyone is quiet familiar that correct post workout nutrition is critical for muscle growth and recovery, but, many aren't aware of the importance that intra-workout nutrient delivery has on maximising lean muscle growth and development. The purpose of this article is to discuss the evidence and relevance behind various nutrients contained in one of the leading intraworkout products, P2P.

Gaining the maximal benefits from hard training requires optimal conditions for strength and muscle development to occur. The importance that various hormones play in the development of strength and muscle is well established in the literature, however achieving the best anabolic environment by dietary means has only become more clear in recent years. Evidence shows that intense exercise initiates the muscle remodelling process by activating hormone-mediated proteolysis, resulting in a drop of nitrogen balance and therefore an increase rate of muscle breakdown(1, 2). In order to regulate this inevitable process in favour of less myofibrillar breakdown and a higher nitrogen balance to support protein synthesis, the correct balance and timing of nutrients is crucial. However, to date there has been a clear misunderstanding in the required balance and timing of nutrients amongst athletes and supplement manufacturers.

To date the beneficial effects of CHO ingestion during exercise is well established, However, it is also well documented the beneficial effects that EAA has on protein synthesis and muscle repair(3-5). Unfortunately, even this knowledge alone doesn't cut it as the combination of the two must be correctly proportioned and the sources of CHO must also be well

balanced in order to maximise absorption and nutrient delivery (4, 6, 7). Furthermore, the confusion surrounding the timing and combination of other nutrients has not helped people make an informed decision on what products or dietary methods they will adopt in order to prevent them being robbed of their hard training. A study by Bird et al, 2006, addressed the issue between CHO and EAA for RT athletes and found that subjects who ingested a mix of CHO and EAA significantly increased strength, fat loss and lean muscle gains compared to the placebo or individual groups over a 12 week period(4). The loss of adipose fat was theorized to be due to the heightened calorie expenditure at rest due to increases in lean muscle and strength which wasn't observed in groups without CHO. In addition, the study took into account, which many don't, that it is the neural adaptations that occur in untrained individuals who gain strength after commencing a RT program. What they reported was gains in strength in the PLA groups for only the first 8 weeks and not from weeks 8-12(4). However the test groups continued to gain strength up until week 12, indicating that the gains in strength were not attributed to neural adaptations and were indeed the tested subjects. In addition, the combined CHO and EAA groups acquired more gains in myofibrillar cross sectional area (CSA) compared to groups ingesting CHO or EAA alone(4). This too is quiet significant as it clearly indicates the importance both CHO and EAA have on regulating catabolic hormones and increasing protein synthesis for achieving higher lean muscle growth and strength. The gains in strength and muscle for the combined group was attributed to the synergistic effect that CHO and EAA had on suppressing Cortisol and hormone-mediated catabolism which was due to the rise in insulin and the affects of EAA on protein synthesis(4). The reduction in muscle breakdown was measured by the excretion of 3-methyl-Histadine (3MH), which is a marker of muscle breakdown and was suppressed significantly more in the combined test group(4).

Moreover, another nutrient which plays a critical role is creatine. Creatine is an amino acid derived nutrient that has been unequivocally shown to increase fat free mass, increase strength and enhance repeated anaerobic performance(8). This has been suggested to result as an increase in protein synthesis and muscle water that ultimately leads to enhanced quality of training gains. Too often people underestimate the importance of combining creatine with a CHO and EAA supplement, merely resulting in partly delivered creatine to the muscle cells and more creatine excreted in the urine. The combination of creatine with CHO that utilise both glucose and fructose transporters, results in significantly higher absorption rates and nutrient delivery to the working muscles(3, 9). The best way to describe this complex process is that CHO and EAA together provide more cars so more nutrients make it to the party (muscle cells) and the use of multiple routes to avoid traffic congestion. As simplistic as this may seem the importance of maximizing this system is critical for fast muscle repair and growth. Furthermore, the use of nitric oxide precursors such





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as arginine are the final icing on the cake when it comes to perfecting the intra-workout puzzle. Arginine stimulates vasodilatation which allows improved blood flow to the working muscles, which is felt by an increase in muscle pump or venous pooling as its correctly called (10). This process complements our previous analogy about the cars taking nutrients to the cells as blood vessel dilation essentially adds more lanes to every route that the cars take to get there, ultimately leading to even further enhancement of nutrient delivery and therefore a more optimal environment for greater muscle repair and growth to take place.

In summary a combination of the correct CHO mix, the right EAA, creatine monohydrate and arginine precursors results in a synergistic enhancement of the muscle remodelling process, resulting in significantly greater gains in strength, muscle, performance and fat loss. P2P is one of the most balanced intra-workout products on the market today with its combination of carbohydrate (CHO), essential amino acids (EAA), creatine and nitric oxide precursors makes this a crucial addition in order to maximize anabolic hormones, strength and acquire maximal lean muscle mass.

INGREDIENTS: Maltodextrin (M180), Creapure® creatine monohydrate, Optipure™ glutamine, L-Leucine, Fructose, L-Glycine, Arginine alpha ketoglutarate, L-Lysine, L-Isoleucine, L-Valine, Dextrose monohydrate, Citrulline malate, Calcium ascorbate, Natural flavour, Sucralose, Natural colour (anthocyanin), Chromium picolinate.

SUGGESTED USE: Mix 30g (1 rounded scoop) in 300mls of water and consume DURING exercise.

NOTE: Bodybuilders and Strength Training Athletes > 80kg bodyweight; mix 60g (2 rounded scoops) in 600mls of water and consume DURING exercise. Store in a cool, dark place.

DISCLAIMER: Not suitable for children under the age of 15 or pregnant women, should only be used under medical or dietary supervision. This food is not a sole source of nutrition and should be used in conjunction with a sensible exercise and nutrition program.

FLAVOURS: Fresh Apple, Wild Blueberry, Fresh Orange, Grape

SIZE: 900g

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