



 Spheratrix

SPHERAGY



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Caffeine is the world's 'go to' pick me up ingredient, with unquestionable scientific data showing it's true worth in supporting sports performance.

Truly versatile in the way this ergogenic supports our body's energy systems, performance enhancement can be seen by taking as little as 50mg caffeine, 30 minutes prior to exercise.

Introducing SpherAGY - A new, innovative and exciting delivery system that provides an additional injection of Caffeine after consumption. Available in either sustained or delayed release format, SpherAGY provides multiple ways to extend concentration, enhance fat burning and heighten performance.

WHAT IS IT FOR?

SpherAGY is the world's cutting edge Caffeine delivery system; for those who demand extreme focus, new personal bests or being able to meet challenging body composition goals. Utilising all new Spheratrix technology; SpherAGY beadlets provide a unique, sustained or delayed approach to Caffeine supplementation.

Taken immediately before exercise, SpherAGY has the ability to drip feed Caffeine to your body's energy systems or strategically releasing a dose at a time of your choosing. The possibilities are endless for tomorrow's products of sports nutrition.



LEAN MUSCLE

Caffeine is a stimulant able to increase metabolic rate, perfectly placed to increase calorie expenditure and therefore a great way to support lean body goals. Enter SpherAGY; the perfect solution to elevating metabolic rate for prolonged periods.

BODY BUILDERS

Training twice daily and late at night requires extreme will power. SpherAGY provides a slow and sustained injection of caffeine, jitter free without the crash that follows. SpherAGY provides the perfect solution to many a pitfall of the 21st century pre-workout.



HIIT TRAINING

Caffeine has been shown to enhance training in any exercise lasting >1 minute duration. Not only does SpherAGY support mental alertness, Caffeine has been shown to boost carbohydrate metabolism allowing athletes to push harder. Through unconfirmed mechanisms, Caffeine has also been found to reduce feelings of perceived exertion.



ENDURANCE

Caffeine has been found to enhance carbohydrate metabolism, allowing athletes to train at higher intensities, speeds and / or power output. SpherAGY may also provide much needed focus towards the end of a race where concentration tends to diminish.



TEAM SPORTS

Consumers of Caffeine tend to be more alert, responding quicker and able to make more effective decisions during team sports. Metabolic enhancements tend to favour a shift towards carbohydrate metabolism, allowing players to participate at higher intensities. If you take your sport seriously, go to SpherAGY.



GENERAL HEALTH

In a fast paced life be on top of your game. Sustained and delayed release Caffeine from SpherAGY gives you the focus to make life a success. No need for high doses of Caffeine or the jitters that follow. Just controlled, sustained mental clarity.



SPHERAGY

CAFFEINE

Caffeine is a central nervous system stimulant, that is used to boost energy . Caffeine supplementation dampens perceived exertion during and after exercise which in turn has been shown to improve endurance in aerobic and anaerobic sports. Studies show that taking caffeine before training promotes higher intensity and volume in your workouts and sport performance. Our beadlet technology provides a way of controlling when and how caffeine is released and adsorbed into the body, which allows us to increase caffeine levels, pre, during and post workout.

We have the ability to modify the release of these active ingredients in order to change their release profile. There are three main profiles available, these are;

Sustained-release – A sustained release coating is designed to release an active ingredient at a predetermined rate in order to maintain a constant dosage concentration for a specific period of time.

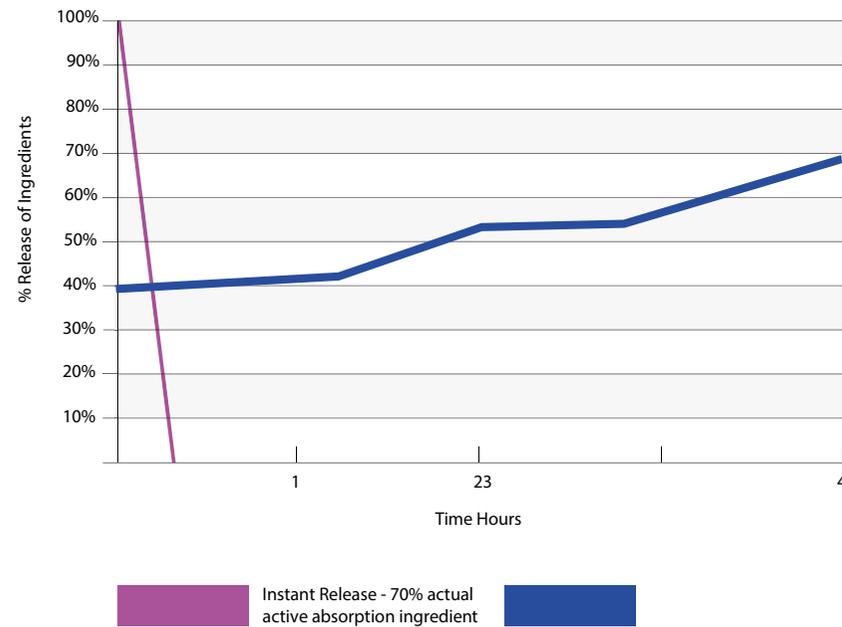
Controlled-release – A controlled release coating delays the release of an active ingredient upon oral administration in order for it to release at a fixed location.

Extended-release – A extended release coating consists of both sustained-release and controlled-release coatings. This is used to control the release location of the active ingredient and also the predetermined rate of release.

Anecdotal Results

By controlling either the rate of release and/or location, we are able to avoid the traditional instant release dump of ingredients. Studies show, that the body struggles to adsorb 100% of any active ingredient when presented in one instant dose.

By dosing in smaller quantities over a sustained period of time, the body will experience better therapeutic activity and adsorb a higher percentage of the active ingredient.



KEY BENEFITS TO DELAYED RELEASE

Delayed-release beads are typically enteric-coated to delay release of the active ingredient until the beadlet has passed through the stomach to prevent the active ingredient from being destroyed or inactivated by gastric juices or where it may irritate the gastric mucosa.

Pharmacokinetic studies have shown that when delayed release beads were given in equal total daily doses,

its bioavailability is approximately 10% higher than that of similar instant release comparisons.

By combining both instant release with delayed release solid dosage forms, we are able to create a 2 stage delivery method, meaning the end user gets two hits from a single dose.

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- Enteric Coated to protect active ingredient through gastrointestinal tract
 - 2 stage delivery method, when combining instant and delayed release solid dosage forms
 - Consumer to achieve two hits from single dose
 - Tasteless active ingredients
 - Premium consumer product offering
 - 10% higher bioavailability when compared to similar instant release comparisons



Increases energy*



Elevates mood*



Lasts 1 - 4 hours*



Starts working quickly



WHY CAFFEINE FOR PERFORMANCE?

Optimal dosing according to current literature: 50-200mg per serving, depending on genetic predisposition. In separate studies, Caffeine has been found to improve exercise capacity during prolonged submaximal exercise (>90mins), sustained high-intensity work (20-60 minutes) and short duration supra maximal exercise (1-5minutes).

The European Food Safety Authority (EFSA) recommend adults obtain no more than 400mg per day, except for pregnant women who are advised to keep below 200mg.

Theory: Caffeine works in multiple ways; aiding focus, elevating metabolic rate, increasing heart rate, boosting carbohydrate metabolism and helping to suppress pain.

BIOCHEMICAL BENEFITS OF DIETARY CAFFEINE:

Improved Mental Focus:

- Caffeine acts as an adenosine antagonist, which means it competes with adenosine at specific receptors in the brain to prevent the negative effects of mental fatigue.

Reduced Sensation of Pain:

- Caffeine seems to express its direct effect via the central blocking of adenosine receptors which influence pain signalling to the peripheral nervous system (PNS).

Enhanced Metabolism of Carbohydrates:

- Studies have suggested Caffeine increases exogenous oxidation of ingested carbohydrate, when co-ingested with carbohydrate during endurance exercise. This metabolic shift from fats to carbohydrate provides a more rapid delivery of energy, allowing athletes to operate at higher intensities.

Recovery Following Training:

- Large doses of Caffeine may enhance glycogen repletion post exercise, aiding post exercise refuelling. Caffeine, therefore, can be ideal for those involved in multiple bouts of training, who have limited time to refuel.

Raises Basal Metabolic Rate:

- Increased glycolysis (carbohydrate breakdown), contributes to greater total calories burnt. For those looking to reduce their body fat percentage, an increased metabolic rate is an important part of the process to achieve the calorie deficit required to get lean.



Powders



Capsules



Tablets



Liquid



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