

aXivite

aXivite® - Sales sheet - Sport nutrition



Boosted performance in a natural way

aXivite – pure efficiency for improved health

The health benefits of chilli with its active ingredient capsaicin are well established in science. aXivite's active ingredient is the innovative Phenylcapsaicin, a patented nature analogue of capsaicin. With its high purity, where the pungency is greatly reduced, a very high bioavailability and no impurities or genotoxicity it is a fantastic innovation for weight control, better gut health, sports nutrition, and as a bioenhancer.

Pure efficiency

Phenylcapsaicin is a capsaicin-engineered molecular structure, that introduces a triple bond within the phenyl group that offers several benefits compared to its naturally occurring analogue. It has a purity of 98%, is easy to handle with 1% formulation in powder form and is stable in production. With its high bioavailability, aXivite delivers much greater plasma concentration at the same dosage compared to natural capsaicin. This allows for a much lower quantity needed, making aXivite a cost efficient, practical, and very safe solution for a variety of new applications, as well as a more effective alternative to naturally extracted capsaicin.

Pungency control

To control the pungency, aXichem has developed a unique microencapsulation, engineered for a specific release.

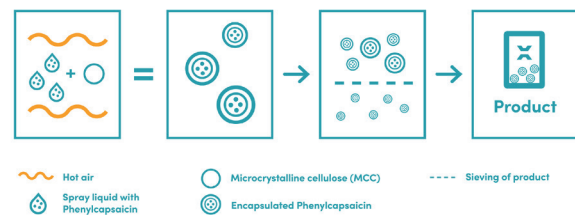
Safe to use

The unique microencapsulated active ingredient at 1% concentration, also serves as an easy-to-handle food additive which can be further developed into a finished product. According to several tests, Phenylcapsaicin shows no sign of genotoxicity, whereas a high dosage of natural pure capsaicin can be toxic. This makes aXivite safe for long-term use. Approved by Novel Food in the EU and GRAS Food in the US, we have a guaranteed safe and approved product for the market, which provides improved industrial efficiency combined with strong sustainability.

NOVEL FOOD IN EU	GRAS IN US
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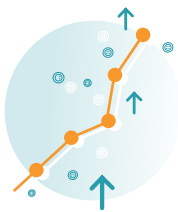


aXivite process description



- 1) The core material microcrystalline cellulose (MCC) particles is fluidized by hot air.
- 2) A spray liquid containing Phenylcapsaicin is sprayed onto the MCC. The hot air dries the particles resulting in encapsulated Phenylcapsaicin on MCC particles.
- 3) Oversized particles are sieved and removed.
- 4) Particles are packaged into ready product.

Train harder. Get stronger. Increase performance



Increase performance
by 11%



Reduce perceived
fatigue by 15%



Faster recovery by
a 24% reduction in
muscle damage



Replace caffeine as a
performance booster
for better sleep

An innovation for modern sport nutrition

aXivite boosts energy and performance. It is an anti-fatigue substance that can reduce the perception of pain and possibly enhance muscle contraction. aXivite also improves neuromuscular function for increasing physical performance. This has created an interest in using it as a possible ergogenic aid for strength conditioning and high-intensity sports.

Clinical study - aXivite effect on increased performance

In a recent randomized, triple-blinded, placebo-controlled crossover clinical trial¹, the findings show that aXivite enhances performance by as much as 11% and leads to faster recovery. By measuring the perception of fatigue, muscle damage, and protein breakdown, the researchers found that aXivite can

increase resistance training volume as identified through full squat velocity performance. This means you can complete your training with the same sets and repetitions but with a reduced feeling of fatigue. Or the performance can be increased by conducting more repetitions until you get exhausted. Even with an increased training level, the mechanical and biochemical fatigue was lower after using phenylcapsaicin due to reduced muscle damage and protein breakdown, leading to a faster recovery.

In addition, athletes using aXivite have experienced that since it works so well in achieving better performance and endurance, it can replace caffeine as a performance booster but without the disturbed sleep that coffee causes.

¹ Published in <https://www.tandfonline.com/doi/full/10.1080/15502783.2023.2204083> Found on axivite.com