

# Zynamite®

**NOW AVAILABLE  
FOR BEVERAGE FORMULATIONS**

## NEXT-GEN SUPPORT FOR BRAIN & BODY



NON-STIM MENTAL ENERGY & PHYSICAL PERFORMANCE

### Enhanced Mental Energy & Improved Sports Performance\*

#### Zynamite Fast Facts

- 12 Clinical trials
- Non-stimulant mental energy
- Fast-acting and experiential
- 7 global industry awards
- Improvement in mental processing speed\*
- Improvement in handling complex tasks\*
- Improvement in mental flexibility\*
- Enhanced workouts & recovery\*
- Water-soluble, taste-neutral
- Exciting consumer messaging

Zynamite is a patented, proprietary extract of mango (*Mangifera indica*) leaf, standardized to  $\geq 60\%$  mangiferin. As a standalone or in combination with other ingredients, Zynamite has been shown to enhance mental energy and cognitive performance (Zynamite, Zynamite S) and improve physical power, sports performance, and recovery (Zynamite PX).\*

Clinical studies on Zynamite have demonstrated rapid onset of enhanced brain electrical activity, with statistically significant improvements in calculation performance, accuracy of performance, accuracy of attention, and episodic memory. For active nutrition, studies of Zynamite PX (Zynamite + *Sophora japonica*, standardized to quercetin) show that it improves peak power output, mean power output, reduces soreness, and speeds recovery from heavy, intense workouts. It has also been shown to improve athletic performance and promote easier exercise.\*

Zynamite S is a new water-soluble grade of Zynamite meeting the growing demand for innovative ingredients that add functionality to energy, sports, hydration, and hybrid drinks. A new clinical study on Zynamite S demonstrated quicker information processing, easier handling of complex cognitive tasks, and improved attention and working memory.

GROWTH THROUGH INNOVATION



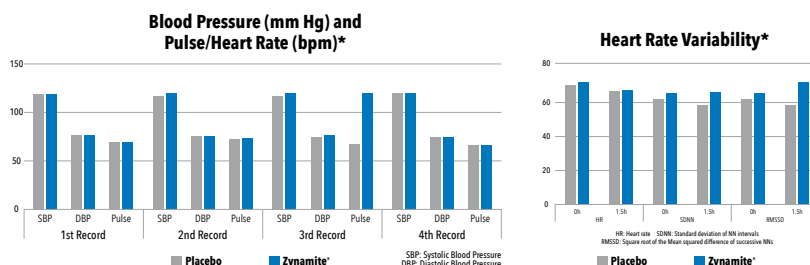
**PLT**  
HEALTH SOLUTIONS

# CLINICAL SUPPORT FOR BOTH IMPROVED COGNITIVE & PHYSICAL PERFORMANCE\*

Zynamite-containing formulas have been studied in 12 clinical trials in both cognitive and physical performance settings.

Zynamite is described as a 'non-stim' ingredient. A clinical study published in the *Journal of Ethnopharmacology* found that while Zynamite and its combination with other ingredients, e.g., tigernut (chufa) had caffeine-like effects on performance of cognitively challenging tasks, it did not produce any changes in blood pressure, pulse, heart rate variability, or skin galvanic response, which are all well-documented with the higher amounts of caffeine required to produce significant cognitive effects.

## TRUE NON-STIM PERFORMANCE



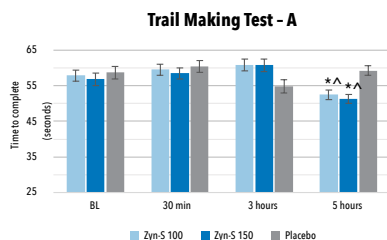
## Zynamite®

### Improvements in Mental Energy & Cognitive Performance\*

In a recent clinical study, 120 healthy university students (age 18-21) were tested following one of three conditions: 100 mg, 150 mg of Zynamite S or a matching placebo. Assessments were taken at baseline, 30 minutes, 3 hours and 5 hours. The study featured a randomized, double-blind, placebo-controlled crossover design with a 7-day washout between testing conditions. The study featured a randomized, double-blind, placebo-controlled crossover design with a 7-day washout between testing conditions. Assessments were taken at baseline, 30 minutes, 3 hours, and 5 hours.

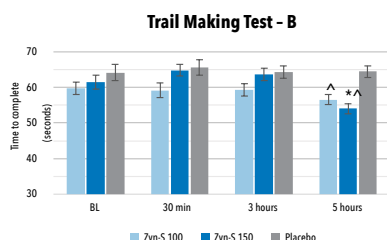
#### Quicker processing speed

After a single dose of Zynamite S, subjects had a greater than 9% improvement in processing speed, as demonstrated by performance on a Trail Making Test.



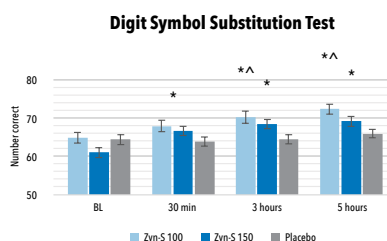
#### Enhanced handling complex tasks

After a single dose of Zynamite S, subjects experienced a greater than 5% improvement in their ability to handle complex tasks, as demonstrated by performance on a second Trail Making Test.



#### Improved digit substitution

After a single dose of Zynamite S, subjects improved their performance on the Digit Substitution Test by more than 11%, with significant differences vs. placebo at 3 and 5 hours.



## Zynamite® PX

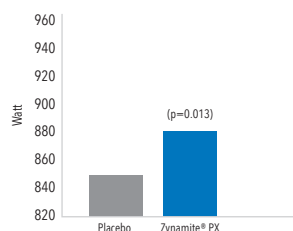
### Improved Physical Performance\*

Zynamite PX (a patented combination of Zynamite with quercetin) has been shown to improve peak power output, while reducing lactate build-up and speeding recovery from long, intense workouts.

#### MORE POWER WHEN FATIGUED OR EXHAUSTED

##### Increased Peak Power Output<sup>5</sup>

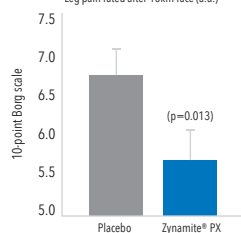
Mean of the three sprints



#### ACCELERATED RECOVERY OF MUSCLE PERFORMANCE

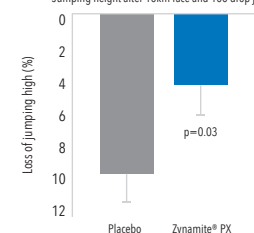
##### Reduced Soreness<sup>7</sup>

Leg pain rated after 10km race (a.u.)



##### Accelerated Recovery of Muscle Performance<sup>7</sup>

Jumping height after 10km race and 100 drop jumps



#### REFERENCES

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\* THESE STATEMENTS HAVE NOT BEEN EVALUATED BY THE FOOD AND DRUG ADMINISTRATION. THIS PRODUCT IS NOT INTENDED TO DIAGNOSE, TREAT, CURE, OR PREVENT ANY DISEASE.

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