

Zynamite®

NEXT-GEN SUPPORT FOR BRAIN & BODY

Enhanced Mental Energy & Improved
Sports Performance

Zynamite Features

- 6 clinical studies
- 4 global industry awards
- Patent-pending
- Experiential & fast-acting
- Enhanced mental energy
- Improved workouts & recovery
- Targets brain & body
- Clean label
- Exciting consumer messaging
- Safe, side-effect free
- GRAS-pending



COGNITIVE ZYNAMITE DELIVERS MENTAL ENERGY

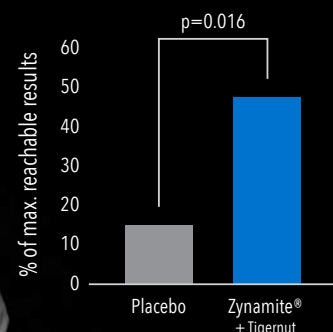
Zynamite is an ingredient that enhances **mental energy**. Clinical studies of formulations containing Zynamite point to rapid onset of enhanced brain electrical activity, with statistically significant improvement in reaction time and calculation performance.

One of the clinical studies done with Zynamite in the area of cognitive support found that standard reaction time (SRT) was decreased by 50 milliseconds. To put that in perspective, the average driver makes about 20 major decisions during each mile driven – and often has less than 500 ms to react to avoid a potential collision. That's a 10% advantage.

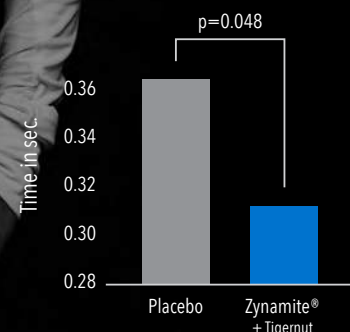
Zynamite can be used alone for mental energy or in conjunction with caffeine. This sets up exciting formulating options that include 'stim' and 'non-stim' products.

Zynamite Clinical Trial Data

Calculation Performance



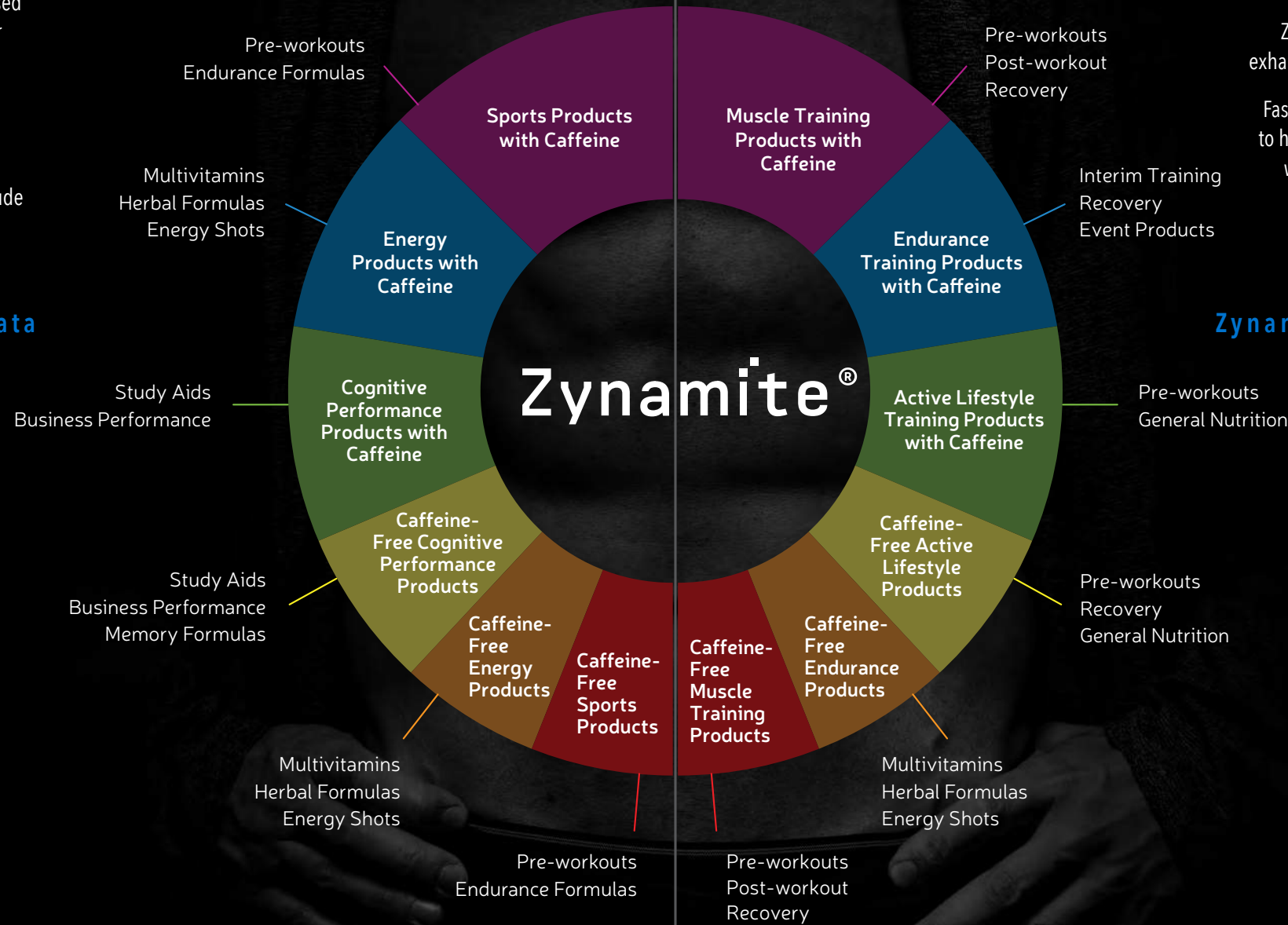
Reaction Time



FASTER REACTIONS & ENHANCED PROCESSING!

50ms
Faster Reaction Time

EXPAND WHAT'S POSSIBLE



PUSH PAST YOUR LIMITS

19.4%
Higher Peak Power in Simulated Exhaustion

MORE POWER WHEN FATIGUED OR EXHAUSTED!

PHYSICAL ZYNAMITE EXPANDS THE POSSIBILITIES OF PERFORMANCE

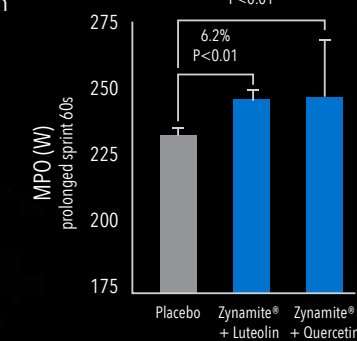
Zynamite is an ingredient that supports **the mental and physical aspects of sports performance**. Across four clinical studies of formulations containing Zynamite, results suggest that it improves both peak power output and mean power output and reduces soreness and speeds recovery from heavy, intense workouts – places where athletes need your help the most.

Clinical study participants receiving different formulations including Zynamite underwent testing in both simulated exhaustion (exercise) and exhausted (ischemia-reperfusion) states. Results were statistically significant.

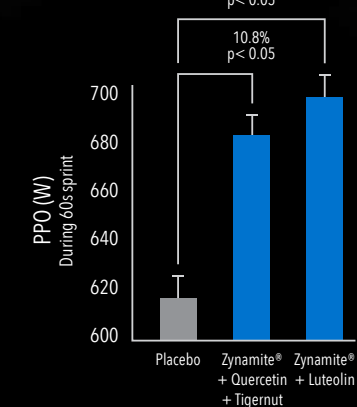
Faster reaction and quicker adaptation to changing conditions are essential to high performance athletics. The cognitive benefits of Zynamite combined with the physical make this ingredient a unique solution and an exciting opportunity for consumer messaging in your products.

Zynamite Clinical Trial Data

Mean Power Output in Fatigued Subjects



Peak Power Output in Fatigued Subjects



READY TO DIG IN ON ZYNAMITE?

Zynamite® is a patent-pending proprietary *Mangifera indica* extract standardized to $\geq 60\%$ mangiferin developed from sustainably harvested mango leaves.

It was developed as part of a comprehensive ethnobotanic screening process designed to deliver a range of mental and physical benefits. It has a portfolio of safety data and has been the subject of 3 pre-clinical and 6 clinical studies.



Since its introduction in 2018, Zynamite has won multiple awards including Nutraingredients, Nutraingredients-Asia and Frost & Sullivan – all of which recognized the cutting-edge possibilities for this ingredient.

Where can Zynamite take you?

Zynamite has potential as a stand-alone ingredient or in creative formulations – and can improve a wide range of cognitive health and sports/active nutrition products. And the Zynamite story is only just beginning.

We've touched on some of the myriad possibilities in this brochure. The question is: where do you want to go?

Scientific References

Dimpfel, W., et al. Zynamite® (*Mangifera indica* leaf extract) and Caffeine Act in a Synergistic Manner on Electrophysiological Parameters of Rat Central Nervous System. *Food and Nutrition Sciences*, 9, 502-518 (2018).

Dimpfel, W., et al. Synergy between Mango Leaf Extract (Zynamite®) and Caffeine with Respect to Stimulation of the Central Nervous System in Rats. *Synergy Forum*, 9-10, Bonn, Germany (2018).

Gelabert-Rebato, M., et al. Enhancement of Exercise Performance by 48 Hours, and 15-Day Supplementation with Mangiferin and Luteolin in Men. *Nutrients*, 11 (2), 344 (2019).

Gelabert-Rebato, M., et al. *Mangifera indica* L. leaf Extract (Zynamite®) in Combination with Luteolin or Quercetin Enhances VO₂peak and Peak Power Output and Preserves Skeletal Muscle Function During Ischemia-Reperfusion in Humans. *Front. Physiol.* 9, 740 (2018).

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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