

CHOCAMINE®

The only patented cocoa-based ingredient to support healthy cognitive function, mood and energy.

People the world over have a love/hate relationship with chocolate...

We crave the taste and aroma of chocolate and love the physical and mental boost that it provides. We also love the recent scientific data documenting its many health benefits. While there is so much to love about chocolate, we hate feeling guilty about eating it!

Isolate the Health Benefits of Chocolate

Chocamine® is a patented cocoa-based ingredient that delivers the best of chocolate—taste, aroma and health benefits—without the guilt, sugar, fat and dairy. The health benefits of chocolate come from a variety of constituents, all of which are retained in Chocamine®:

- ▶ Theobromine (standardized to 12%)
- ▶ Amino acids
- ▶ Nutritious minerals
- ▶ Biogenic amines
- ▶ Anandamides
- ▶ Polyphenols



Caffeine-Free Energy

We also have a love/hate relationship with caffeine... We love the instant energy and cognitive boost, but hate the jitters, stomachaches, sleep problems and dependency issues that come with it.

The energy from theobromine differs from caffeine!

- ▶ Theobromine has a milder stimulant effect, resulting in jitter-free energy.^{1,2}
- ▶ Theobromine has a longer half-life in the body, thereby providing longer-lasting energy.^{1,2}
- ▶ Theobromine has been shown to have less of an effect on sleep than caffeine.¹
- ▶ Theobromine is less addictive than caffeine, due to differences in adenosine receptor activity.¹

For more information about Chocamine® go to: RFIingredients.com

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CHOCAMINE®

Versatile Product Development Capabilities!

Results of Clinical Studies with Chocamine®

Preliminary Clinical Study - 2005

Participants: 3 healthy adults

Assessment Tool: Audio-Visual Multi-Processing Test (ACMT)

Serving: 1000 mg

Chocamine® RESULTS: The data shows that consuming 1000 mg Chocamine® resulted in:

- ▶ Improved ability to react quickly to alternating auditory and visual commands.
- ▶ Improved ability to ignore interfering auditory commands while remaining focused on a visual task.

Clinical Study - 2009

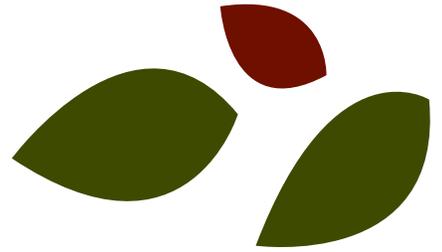
Participants: 40 healthy volunteers

Assessment Tool: IMPACT™ Cognitive Assessment – a prominent neurocognitive research tool used by scientists in the field of neuropsychology, particularly to measure the impact of odor, flavor and stimulation of other chemical senses.

Serving: 1000 mg

Chocamine® RESULTS:

- ▶ Significant improvement in test assessing short-term memory and visual-motor response speed.
- ▶ Up to 39% improvement after Chocamine® consumption.
- ▶ Positive trends in tests assessing reaction time and impulse control/response inhibition.



Versatile Product Development Capabilities

Chocamine® is ideal for use in a wide variety of applications—from beverages, bars and confections to dietary supplements and powdered drinks*.

The primary markets for Chocamine® include:

- ▶ Energy and Endurance
- ▶ Sports Nutrition
- ▶ Healthy Circulation
- ▶ Positive Mood and Outlook
- ▶ Cognitive Function: Focus, Memory and Mental Acuity
- ▶ Wellness and Anti-Aging
- ▶ Cravings, Satisfaction and Weight Management

*The recommended serving of Chocamine® is 500-1000 mg

Have an Idea for a Product?

We will help you bring it to market! **Blueprints for Health®** is our quick-to-market solution for custom products and turnkey solutions. Our diverse range of services will streamline the entire development, manufacturing and marketing process, saving you money, time and a whole lot of hassle.

¹ Smit HJ. Handb Exp Pharmacol. 2011;(200):201-34.

² Mumford GK, et al. Eur J Clin Pharmacol 1996;51:319-25.

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