

Innovative Pain Solutions



Theramine[®]

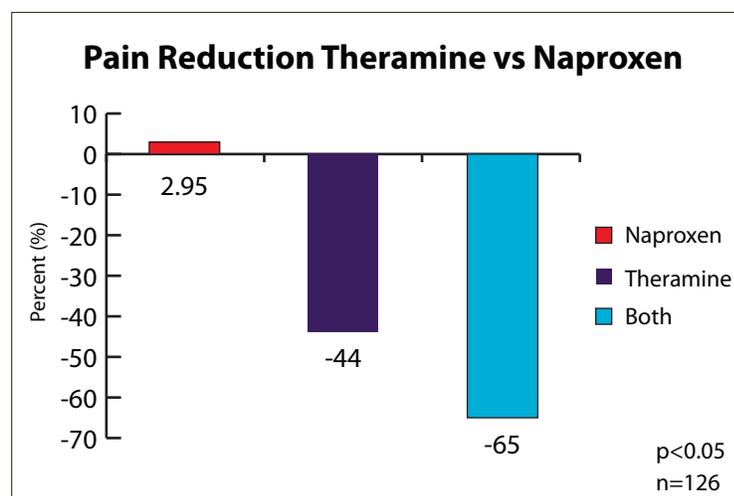
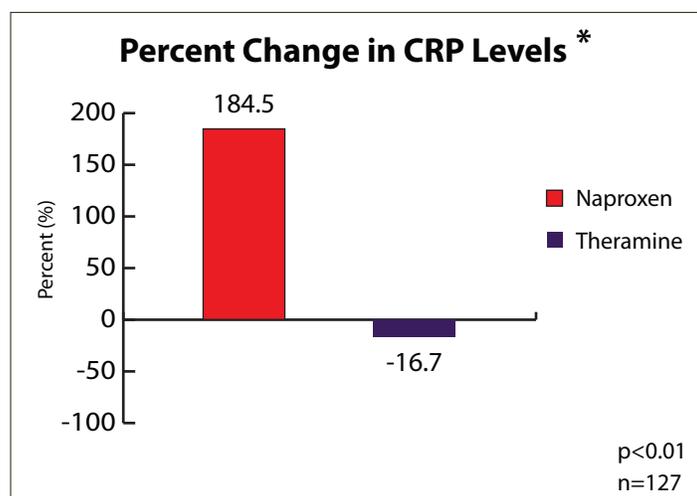
for the dietary management of pain syndromes

- ▶ Non-Addictive
- ▶ No Reported GI Bleeds
- ▶ Reduce Inflammation
- ▶ Improve Pain Perception
- ▶ Over 38 million Individual Doses Administered without a Reported GI Bleed ¹

1. administrations is defined as number of pills sold since 2004



Improve Clinical Outcomes



In this double-blind multicenter trial of 127 subjects with chronic established back pain, a statistically relevant decrease in CRP was measured among subjects taking **Theramine** compared to those taking naprosyn (250mg) once daily.*

In a 28 day double-blind multicenter trial of 127 subjects with chronic established back pain, subjects taking Theramine experienced a 76% reduction in pain compared to once daily naprosyn (250mg) ¹ as measured by the Roland Morris Index.*

* Shell, et al. A Double Blind Controlled Trial of a Single Dose Naproxen and an Amino Acid Medical Food, Theramine for the Treatment of Low Back Pain. American Journal of Therapeutics, 2012

Safety Information

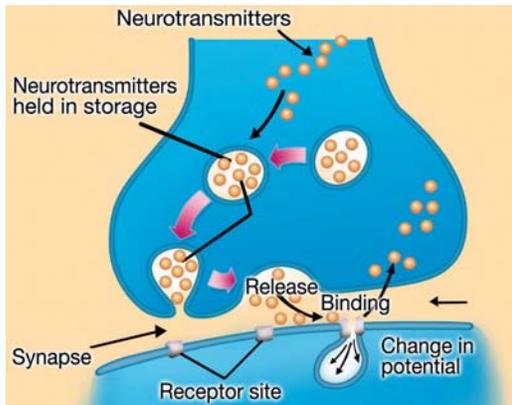
Theramine[®] is contraindicated in an extremely small number of patients with hypersensitivity to any of the nutritional components of Theramine.

ADVERSE REACTIONS: Ingestion of L-Tryptophan, L-Arginine, or Choline at high doses of up to 15 grams daily is generally well tolerated. The most common adverse reactions of higher doses — from 15 to 30 grams daily — are nausea, abdominal cramps, and diarrhea. **Theramine** contains less than 1 gram per dose of amino acids however, some patients may experience these symptoms at lower doses. The total combined amount of amino acids in each **Theramine** capsule does not exceed 300 mg.

DRUG INTERACTIONS: **Theramine** does not directly influence the pharmacokinetics of prescription drugs. Clinical experience has shown that administration of **Theramine** may allow for lowering the dose of co-administered drugs under physician supervision.

Theramine[®] and Targeted Cellular Technology[™]

The efficacy of **Theramine** is driven by *Targeted Cellular Technology*, a patented five step process that increases the cellular uptake and utilization of neurotransmitter precursors required for mitigating pain and inflammation.



- 1 **Neurotransmitter Precursors** → GABA, Choline, L-arginine, L-glutamine, L-histidine, 5-HTP, L-serine
- 2 **Neuron Uptake Stimulator** → Cinnamon, Whey Protein Isolate
- 3 **Adenosine Break Inhibitor** → Cocoa Extract
- 4 **Neuron Activator** → Glutamate
- 5 **Attenuation Inhibitor** → Grape Seed Extract

Amino Acids, Biogenic Amines, & Active Ingredients	Medical Food Per Recommended Dose** (Theramine)
Gamma Aminobutyric Acid (GABA)	200 mg
Choline Bitartrate (Choline Bitartrate from natural L(+)-tartaric acid)	125 mg
Whey Protein Isolate (90%+ protein by weight)	75 mg
L-Arginine HCL (Produced from plant derived materials)	75 mg
L-Histidine HCL (Produced from plant derived materials)	50 mg
L-Glutamine (Produced from plant derived materials)	50 mg
Griffonia Extract (seed) (95% 5-HTP) (Standardized Extract)	32 mg
L-Serine (Produced from plant derived materials)	25 mg
Cocoa Extract (fruit) (6% theobromine) (Standardized Extract)	50 mg
Grape Seed Extract (85% polyphenols) (Standardized Extract)	25 mg
Cinnamon (bark) (Botanical Powder)	25 mg

* Ingredient claims are based on current market availability. Actual claims may vary. Individual results, including those for microbiology, pesticides, and heavy metals including arsenic, cadmium, lead, and mercury are available to practitioners upon request. If you would like to learn more or provide feedback please email help@ptlcentral.com

**For the dietary management of the metabolic processes associated with pain disorders and inflammatory conditions. Take two (2) capsules twice daily, or as directed by physician. As with most amino acid formulations Theramine should be taken without food to increase the absorption of key ingredients.