<mark>[™]Mg</mark> Optima[™] Relax

Supporting Natural Metabolic Pathways for GABA Production and Activity





¹²Mg Optima[™] Relax is scientifically formulated to promote relaxation during times of stress.

Magnesium may function as a Gamma-aminobutyric acid (GABA) receptor agonist promoting the effects of GABA while glycine functions as an inhibitory neurotransmitter and may assist with relaxation.^{1,2} Glutamine is a precursor to GABA production³ while Theanine, an amino acid from Green Tea, promotes relaxation via binding to glutamate receptors and inducing alpha wave brain activity.⁴ Pyridoxal (B6) is a cofactor for the enzyme Glutamate Decarboxylase that synthesises GABA⁵ and zinc may act as a modulator of both excitatory and inhibitory neurotransmission.⁶

Key Features and Benefits:

- Promote relaxation during times of stress⁷
- Positive effect on mood and cognitive performance^{1,2}
- Relieve muscles of aches and pains⁸
- Reduce effects of mild anxiety and nervous tension⁹
- Highly absorbable and bioavailable form of Albion[®] magnesium bisglycinate





150 g & 300 g POWDER PLEASANT LEMON & LIME FLAVOUR







REFERENCES:

Held K, Antonijevic IA, et al. Oral Mg(2+) supplementation reverses age-related neuroendocrine and sleep EEG changes in humans. Pharmacopsychiatry 2002;35:135-43. 1. 2.

- Eulenburg V, Armsen W, et al. Glycine transporters: essential regulators of neurotransmission. *Trends Biochem Sci* 2005;30:325-33. Walls AB, Waagepetersen HS, et al. The glutamine-glutamate/GABA cycle: function, regional differences in glutamate and GABA production and effects of interference 3.
- 4
- with GABA metabolism. Neurochem Res 2015;40:402-9. Kimura K, Ozeki M, et al. L-Theanine reduces psychological and physiological stress responses. *Biol Psychol* 2007;74:39-45. Jasmin L, Wu MV, et al. GABA puts a stop to pain. *Curr Drug Targets CNS Neurol Disord* 2004;3:487-505. Takeda A, Minami A, et al. Differential effects of zinc on glutamatergic and GABAergic neurotransmitter systems in the hippocampus. *J Neurosci Res* 2004;75:225-9. Ross SM. L-theanine (suntheanin): effects of L-theanine, an amino acid derived from Camellia sinensis (green tea), on stress response parameters. *Holist Nurs Pract* 2014;75:225-9. 5 6. 7
- 2014;28:65-8
- Schwellnus MP, Derman EW, et al. Aetiology of skeletal muscle 'cramps' during exercise: a novel hypothesis. J Sports Sci 1997;15:277-85.
 Yoto A, Motoki M, et al. Effects of L-theanine or caffeine intake on changes in blood pressure under physical and psychological stresses. J Physiol Anthropol 2012;31:28
 Owens DF, Krieg Stein AR. Is there more to GABA than synaptic inhibition? Nature Rev Neuroscience 2002;3:715. 11. Gecz, J. Glutamate receptors and learning and memory. Nature Genetics 2010;42:925

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