

FOCUS

ACUITY

MEMORY

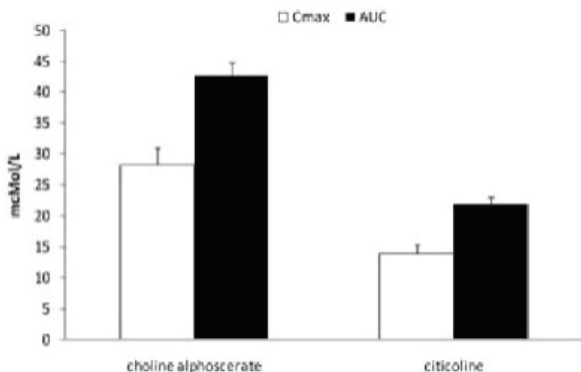
COGNITION

For over 20 years Chemi Nutra has supplied the US AlphaSize® A-GPC (Alpha-Glycerol Phosphorylcholine).

Chemi Nutra is the source of premium focused nutritional ingredients with consistent delivery of pharmaceutical grade compounds you can trust.



## The AlphaSize® A-GPC Difference versus CDP Citicoline



Clinical studies performed in healthy subjects documented that administration of A-GPC (Alpha-Glycerol Phosphorylcholine) (1000 mg) induced, after 0.25 hours, significantly higher levels of plasma choline with respect to the administration of CDP Citicoline (1000 mg). (1)(3)

A-GPC achieved higher levels of plasma choline over CDP citicoline. A-GPC levels remained in the plasma by 50% longer than citicoline. (1)(3)

Additionally... AlphaSize® A-GPC in a comparative analysis of 100 mg of A-GPC and CDP citicoline identified that A-GPC contains 40 mg of choline and CDP citicoline contains 20 mg of choline. (4)

# It's All About Brain Health and the AlphaSize® Difference!

Discover a need. Deliver a solution.

## The AlphaSize® A-GPC Difference versus Choline Bitartrate

AlphaSize® A-GPC (Alpha-Glycerol Phosphorylcholine) delivers its benefits directly in the brain by passing through the blood brain barrier. Choline bitartrate is not able to enter the brain, therefore limiting its benefits.

## The AlphaSize® A-GPC Difference!

AlphaSize® A-GPC (Alpha-Glycerol Phosphorylcholine) is an advanced choline compound that can pass through the blood brain barrier where it can enhance brain metabolism and increase the release of acetylcholine, the body and brain's primary neurotransmitter. (1)(4)

AlphaSize® A-GPC research has shown that A-GPC increases the release of acetylcholine which supports an improvement in brain health. (1)(4)

AlphaSize® A-GPC is a supplemental source of choline and phospholipids that resembles the body's own composition which can prevent cellular breakdown during periods of increased choline demand. (2)

AlphaSize® Alpha-GPC is derived from all natural sources where its safety and efficacy have been evaluated in numerous pharmaceutical and nutraceutical clinical research studies.



### Applications

- Capsules and Tablets
- Beverages RTD
- Powder Drink Mixes Pre-workout
- Energy
- Dairy
- Confectionery Gummies
- Bars and Chewables
- Specialty
- Novel

### Attributes

- GRAS (GRN 419)
- NDI (NDI 1269)
- USP Grade
- Kosher & Halal
- Allergen Free
- IGEN™ non-GMO
- Clean Label

### Resources

1. Gallelli, L., MD, PhD. (2011). Choline alphoscerate pharmacology and its role in the treatment of cognitive impairment related to neurological disorders. Functional Neurology, 1-7. <https://www.semanticscholar.org/paper/Choline-alphoscerate-pharmacology-and-its-role-in-Gallelli/c1657eec2797e70ee0813e12abf206c51409301e>.
2. Gatti G, Barzaghi N, Acuto G, Abbiati G, Fossati T, Perucca E. A comparative study of free plasma choline levels following intramuscular administration of L-alpha-glycerolphosphorylcholine and citicoline in normal volunteers. Int J Clin Pharmacol Ther Toxicol. 1992 Sep;30(9):331-5. PMID: 1428296.
3. Sagaro GG, Amenta F. Choline-Containing Phospholipids in Stroke Treatment: A Systematic Review and Meta-Analysis. (2023) J Clin Med, 12(8):2875. <https://doi.org/10.3390/jcm12082875> Benefits AGPC vs Citicoline [CDP].
4. Amenta, P. F. (2019, March 18). Role of Choline Containing Phospholipids in brain function [University of Camerino, Italy]. School of Medicinal and Health Sciences Products.