CLA Slim



www.AbsoluteHealthOcala.com 7350 SW 60th Ave., St Ocala, FL 34476





Clinical Applications

- · Promotes the Proper Transport of Fat so it Does Not Accumulate in Fat Cells*
- Helps Maintain a Healthy Muscle Mass*
- Assists with Healthy Blood Sugar Metabolism*
- Provides Strong Antioxidant Properties*

CLA Slim is a patented form of conjugated linoleic acid (CLA). This product is a rich source of CLA, standardized to contain a minimum 78% conjugated linoleic acid as cis-9, trans-11, trans-10, and cis-12 isomers in a 50:50 ratio. Animal and human studies suggest that CLA may reduce body fat and help maintain healthy body composition and lean muscle mass. While CLA in the diet is found primarily in dairy products and beef fat, CLA Lean is derived from pure, non-GMO safflower oil.*

All Absolute Health Formulas Meet or Exceed cGMP Quality Standards

Discussion

Conjugated linoleic acid (CLA) is a fatty acid found in small amounts in the human diet and can amount to an estimated average intake of 0.35-0.43 g CLA per day. 1Research using higher doses of CLA (via supplementation) suggests that it reduces body fat in a dose-related manner. A 2007 meta-analysis of randomized, double-blind, placebo-controlled (RDBPC) human trials revealed that a mean dose of 3.2 g CLA per day produced modest fat loss in human subjects.2 Two capsules of CLA Slim provides 1.56g of CLA in a 50:50 ratio of cis-9,trans-11 (c9,t11) and trans-10,cis-12 (t10,c12) isomers, the composition commonly used in clinical studies. Though c9,t11 is the principal CLA isomer found in food, t10,c12 appears to specifically affect fat cells by inhibiting lipoprotein lipase and stearoyl-CoA desaturase, resulting in reduced uptake of lipids into adipocytes.*3

A three-month RDBPC study of 60 overweight or obese volunteers was conducted utilizing various doses of CLA. A significantly higher reduction in body fat mass (BFM) was seen in all CLA groups compared to placebo. However, no further reduction in BFM occurred with doses >3.4 g/day.4 A six-month clinical trial suggested that fat loss from CLA supplementation occurred primarily in the abdominal area and legs of females and in the abdomen of males without specific diet or exercise efforts. No adverse effects on blood parameters or insulin sensitivity were observed.⁵ In 2004, a long-term RDBPC study was performed in healthy, overweight subjects. After 12 months, BFM was significantly reduced in subjects receiving CLA (50:50 ratio of c9,t11 and t10,c12) in both triacylglycerol and free fatty acid form when compared to placebo. Statistical significance was observed as early as six months and increased as the study progressed. Lean body mass (LBM) was significantly higher in the free fatty acid form of CLA (the form in CLA Slim) when compared to placebo; LBM in the triacylglycerol CLA supplemented group did not differ from placebo. 6 A 12-month extension study suggested that long-term CLA supplementation decreased BFM, was well tolerated, and helped maintain reductions in body fat and weight over

Interestingly, CLA supplementation was found to decrease body fat percentage even in normal weight subjects. Without changing diet, calorie intake, or lifestyle, the group consuming 2.4g CLA in an RDBPC study experienced a decrease in body fat from 21.3 to 17% (representative of a 15-20% reduction in fat but no change in weight) while the placebo group experienced an increase in body fat.^{8,9} In fact, when calories are restricted by more than 200 per day, hypocaloric intake appears to negate the effects of CLA on fat loss. 10 Although the mechanism of action of CLA is not completely understood in humans, animal studies suggest that CLA upregulates gene expression of mitochondrial uncoupling proteins and lipid metabolizing proteins. These modifications ultimately contribute to reduced fat mass and increased LBM. CLA affects peroxisome proliferator-activated receptors as well. These nuclear receptors are found to regulate metabolic processes in the cell.*11

A seven-week, randomized, placebo-controlled, crossover study addressing the effects of 5g/day of CLA on muscle resistance training suggested that the CLA group had a significant increase in lean tissue mass, a significant decrease in fat mass, and a "lessening of the catabolic effect of training on muscle protein." 12 A study of 44 healthy young women suggested that supplementing with 3.1g of CLA alone or with exercise helped maintain healthy glucose metabolism.*13

Research in vivo and in vitro suggested that CLA affected the production and balance of arachidonic acid-derived eicosanoids, NF-kappaB, COX-2 enzymes, and cytokines. 14,15 A double-blind, randomized study of 28 healthy subjects revealed that levels of TNF-alpha and IL-1beta were significantly decreased (P < 0.05) and levels of IL-10 were significantly increased (P < 0.05) following supplementation with 3 g/d CLA (50:50 ratio of c9,t11 and t10,c12 CLA).15 Supplementation with 2.5g/d of CLA (equivalent to 2 g/d 50:50 ratio of c9,t11 and t10,c12 CLA) produced statistically significant test results that reflected a decrease in joint discomfort and stiffness in a randomized, double-blind placebo controlled three-month study. When combined with alpha-tocopherol, supplementation with CLA produced a significant decrease in erythrocyte sedimentation rate (ESR).*16

> *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.



Supplement Facts

Serving Size 1 softgel

†Daily Value not established.

Amount Per Serving		% Daily Value
Calories	10	
Total Fat	1 g	2%*
Conjugated Linoleic Acid (CLA)(from safflower oil)	780 mg	†

Other Ingredients: Bovine gelatin, water, and glycerine.

Directions

Take one capsule 1-2 times daily, or as directed by your healthcare provider.

Consult your healthcare provider prior to use. Individuals taking blood thinners or other medication should discuss potential interactions with their healthcare practitioner. Do not use if tamper seal is damaged.

Does Not Contain

Wheat, gluten, corn, yeast, soy protein, dairy products, shellfish, peanuts, tree nuts, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, or artificial preservatives.



References

- Natural Standard Database. Conjugated Linoleic Acid. http://naturalstandard.com/databases/herbssupplements/patientconjugatedlinoleicacid.asp#undefined. Accessed August 13, 2012.
- 2. Whigham LD, Watras AC, Schoeller DA. Efficacy of conjugated linoleic acid for reducing fat mass: a meta-analysis in humans. Am J Clin Nutr. 2007 May;85(5):1203-11. [PMID: 17490954]
- 3. Pariza MW, Park Y, Cook ME. The biologically active isomers of conjugated linoleic acid. Prog Lipid Res. 2001 Jul;40(4):283-98. [PMID: 11412893]
- 4. Blankson H, Stakkestad JA, Fagertun H, et al. Conjugated linoleic acid reduces body fat mass in overweight and obese humans. J Nutr. 2000 Dec;130(12):2943-8. [PMID: 11110851]
- 5. Clarinol. http://www.clarinol.com/HealthBenefits/ResearchResults/. Accessed August 16, 2012.
- Gaullier JM, Halse J, Høye K, et al. Conjugated linoleic acid supplementation for 1 y reduces body fat mass in healthy overweight humans. Am J Clin Nutr. 2004 Jun;79(6):1118-25. [PMID: 15159244]
- 7. Gaullier JM, Halse J, Høye K, et al. Supplementation with conjugated linoleic acid for 24 months is well tolerated by and reduces body fat mass in healthy, overweight humans. J Nutr. 2005 Apr;135(4):778-84. [PMID: 15795434]
- 8. Pizzorna, LU, Pizzorno, JE, Murray MT. Natural Medicine Instructions for Patients. Churchill Livingstone; 2002.
- 9. Thom E, Wadstein J, Gudmundsen O. Conjugated linoleic acid reduces body fat in healthy exercising humans. J Int Med Res. 2001 Sep. Oct;29(5):392-6. [PMID: 11725826]
- Park Y. Conjugated linoleic acid (CLA): Good or bad trans fat? Journal of Food Composition and Analysis. Dec 2009;22(Suppl):S4-S12. http://dx.doi.org/10.1016/j.jfca.2008.12.002.
- Peters JM, Park Y, Gonzalez FJ, et al. Influence of conjugated linoleic acid on body composition and target gene expression in peroxisome proliferator-activated receptor alpha-null mice. Biochim Biophys Acta. 2001 Oct 31;1533(3):233-42. [PMID: 11731333]
- Pinkoski C, Chilibeck PD, Candow DG, et al. The effects of conjugated linoleic acid supplementation during resistance training. Med Sci Sports Exerc. 2006 Feb;38(2):339-48. [PMID: 16531905]
- 13. Colakoglu S, Colakoglu M, Taneli F, et al. Cumulative effects of conjugated linoleic acid and exercise on endurance development, body composition, serum leptin and insulin levels. J Sports Med Phys Fitness. 2006 Dec;46(4):570-7. [PMID: 17119522]
- 14. Li G, Barnes D, Butz D, et al. 10t,12c-conjugated linoleic acid inhibits lipopolysaccharide-induced cyclooxygenase expression in vitro and in vivo. J Lipid Res. 2005 Oct;46(10):2134-42. [PMID: 16061956]
- 15. Song HJ, Grant I, Rotondo D, et al. Effect of CLA supplementation on immune function in young healthy volunteers. Eur J Clin Nutr. 2005 Apr;59(4):508-17. [PMID: 15674307]
- Aryaeian N, Shahram F, Djalali M, et al. Effect of conjugated linoleic acids, vitamin E and their combination on the clinical outcome of Iranian adults with active rheumatoid arthritis. Int J Rheum Dis. 2009 Apr;12(1):20-8. [PMID: 20374312]

*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.

REV. 09/27/22