

CerefolinNAC® Caplets

DESCRIPTION

CerefolinNAC® is a prescription medical food for use only under the supervision of a physician for the clinical dietary management of mild cognitive impairment and is specially formulated to meet the distinctive nutritional requirements for this condition.

Each CerefolinNAC® caplet contains 6 mg of L-methylfolate Calcium (as Metafolin®)* and 90.314 mg of Algae-S Powder (Schizochytrium), 2 mg of Methylcobalamin and 600 mg of N-Acetyl-L-Cysteine.

*CAS#151533-22-1

INGREDIENTS

N-acetyl-L-Cysteine, Silicified Microcrystalline Cellulose NF, Algae-S Powder (Schizochytrium Algal Oil [Vegetable source], Glucose Syrup Solids, Mannitol, Sodium Caseinate (milk), Soy Protein, High Oleic Sunflower Oil, 2% or less Sodium Ascorbate, Tricalcium Phosphate, Tetrasodium Diphosphate, Natural Flavors, Soy Lecithin, and Mixed Natural Tocopherols and Ascorbyl Palmitate [as antioxidants]), Polyvinyl Alcohol, Croscarmellose Sodium NF, Titanium Dioxide, Polyethylene Glycol 3350, L-methylfolate Calcium (Metafolin®), Magnesium Stearate (NF, Vegetable Source), Talc, Methylcobalamin, Beet Powder Red (color), Caramel FCC (color), Carnauba Wax. **Contains Milk and Soy**

CerefolinNAC® caplets do not contain lactose, yeast or gluten.

CerefolinNAC® is a prescription medical food for use only under the supervision of a physician.

Medical foods are intended for a patient who has a limited or impaired capacity to ingest, digest, absorb, or metabolize ordinary foodstuffs or certain nutrients, or who has other special medically determined nutrient requirements, the dietary management of which cannot be achieved by the modification of the normal diet alone.¹ **This product is not an Orange Book product.**

INDICATIONS AND USAGE

CerefolinNAC® is indicated for the distinct nutritional requirements of individuals with mild to moderate cognitive impairment who present with an increased risk for neurovascular oxidative stress and/or hyperhomocysteinemia; and/or suboptimal L-methylfolate and/or vitamin B12 levels in the cerebrospinal fluid, plasma, and/or red blood cells.²⁻²¹

CONTRAINDICATIONS

CerefolinNAC® is contraindicated in patients with known hypersensitivity to any of the components contained in this product.

PRECAUTIONS

GENERAL

Folic acid, when administered in daily doses above 0.1mg, may obscure the detection of B12 deficiency (specifically, the administration of folic acid may reverse the hematological manifestations of B12 deficiency, including pernicious anemia, while not addressing the neurological manifestations). L-methylfolate Calcium may be less likely than folic acid to mask vitamin B12 deficiency.²²⁻²³ Folate therapy alone is inadequate for the treatment of a B12 deficiency.

N-acetyl-L-cysteine should be avoided by nursing mothers.²⁴ N-acetyl-L-cysteine clearance is reduced in those with chronic liver disease as well as in pre-term newborns.²⁴ Headaches may be intensified in those taking N-acetyl-L-cysteine and nitrates for the treatment of angina.²⁴ While the incidence of renal stones is low, those that do form renal stones, particularly cysteine stones should avoid CerefolinNAC®.²⁴ Do not administer CerefolinNAC® to critically ill patients.²⁴ N-acetyl-L-cysteine and its sulfhydryl metabolites could produce a false-positive result in the nitroprusside test for ketone bodies used in diabetes.²⁴ N-acetyl-L-cysteine should be used with caution in those with a history of peptic ulcer disease since N-acetyl-L-cysteine may disrupt the gastric mucosal barrier.²⁴

PATIENT INFORMATION

CerefolinNAC® is a prescription medical food for use only under the supervision of a physician.

ADVERSE REACTIONS

Allergic reactions have been reported following the use of oral L-methylfolate Calcium.²⁵ Mild transient diarrhea, itching, transitory exanthema and the feeling of swelling of the entire body has been associated with methylcobalamin.²⁶ Nausea, vomiting, diarrhea, transient skin rash, flushing, epigastric pain, and constipation have been associated with N-acetyl-L-cysteine.²⁴

RECOMMENDED USE

The usual adult dose is one caplet daily or as directed under medical supervision.

HOW SUPPLIED

CerefolinNAC® is a prescription medical food for use only under the supervision of a physician.

CerefolinNAC® Bottle of 90 Product Code # 00525-0555-90*. Use under medical supervision.

Each CerefolinNAC® caplet is an oval coated beige colored caplet. Debossed with "PAL" on one side and "600" on the other.

*Alfasigma USA, Inc. does not represent these product codes to be National Drug Codes (NDC). Product codes are formatted according to standard industry practice, to meet the formatting requirements of pharmacy and health insurance computer systems.

STORAGE

Store at controlled room temperature 15°C to 30°C (59°F to 86°F) (See USP). Protect from heat, light and moisture.

PATENTS

Some or all of the following patents may apply:

U.S. Patent No. 5,997,915
U.S. Patent No. 6,008,221
U.S. Patent No. 6,011,040
U.S. Patent No. 6,127,370
U.S. Patent No. 6,254,904

U.S. Patent No. 6,441,168B1

U.S. Patent No. 7,172,778

U.S. Patent No. 7,674,490

U.S. Patent No. 7,709,460B2

REFERENCES

1. United States Food and Drug Administration Title 21 Code of Federal Regulations 101.9(j) (8).
2. Adair JC, et al. *Neurology* 2001;57:1515-1517.
3. Albert M, et al. *Alzheimer's and Dementia* 2011; 1-10
4. Boyd-Kimball D, et al. *Journal of Neuroscience Research* 2005;79:700-706.
5. Guidi I, et al. *Neurobiology of Aging* 2006;27(2):262-269.
6. Keller J, et al. *Neurology* 2005; 64:152-1156.
7. Wiklund O, et al. *Atherosclerosis* 119 (1996) 99-106.
8. Durga J et al. *The Lancet* 2007;369:208-216.
9. Haan M, et al. *Am J Clin Nutr* 2007; 85:511-17.
10. Lehmann M, et al. *Dement Geriatr Cogn Disord* 2003; 16:145-50.
11. McCaddon A. *Nutrition Journal* 2006; 5: 1-6.
12. McCaddon A, et al. *Dement Geriatr Cogn Disord* 2001; 12:309-313.
13. McCaddon A, et al. *Int J Geriatr Psychiatry* 2005; 20: 998-1000.
14. Nilsson K, et al. *Int J Geriatr Psychiatry* 2001; 16:609-14.
15. Nurk, E, et al. *Ann Neurol* 2005; 58:847-57.
16. Quardri P, et al. *Am J Clin Nutr* 2004; 80:114-22.
17. Fioravanti M, et al. *Archives of Gerontology and Geriatrics* 1997; 26:1-13.
18. Kado D, et al. *American Journal of Medicine* 2005; 118:161-67.
19. Vital Trial Group. *Journal of Internal Medicine* 2003; 254:67-75.
20. Morris M, et al. *Am J Clin Nutr* 2007; 85:193-200.
21. McCaddon A, et al. *CNS Spectr.* 2010; 15:1-5.
22. B Akoglu, et al. *European Journal of Clinical Nutrition* (2007), 1-6.
23. Scott JM, et al. *Lancet.* 1981 2:337-340.
24. PDR for Nutritional Supplements 2001; ISBN: 1-56363-364-7; 11-14.
25. Natural Standard Research Collaboration (NIH). *Folate (folic acid) Monograph* 2009.

26. Natural Standard Research Collaboration (NIH).
Vitamin B12 Monograph 2009.

Metformin® is a registered trademark of Merck KGaA,
Darmstadt, Germany.

MANUFACTURED AND DISTRIBUTED by
Alfasigma USA, Inc.
Covington, LA 70433
Questions?
Call 1-844-639-9726
Revised 2/17