# Neuroplex®

## Maintains Healthy Function of the Nervous and Endocrine Systems

The use of glandular therapy, in which specific animal organ and gland tissues are ingested for the concentrated nutrients present in them, has had a long history of use across a variety of cultures. The basic premise in glandular therapy is "like heals like." Neuroplex contains bovine, porcine, and ovine glands and tissues including brain, pineal, hypothalamus, pituitary, liver, and spleen to provide concentrated nutrients that are especially supportive to their parallel tissues in the human body. Vitamins and minerals contained in Neuroplex enable enzymes and hormones to function properly, contributing to the healthy maintenance of the nervous, endocrine, and immune systems, as well as other control functions for the body.<sup>†</sup>

# How Neuroplex Keeps You Healthy

## Promotes healthy endocrine and nervous system functions

The pineal gland is the site at which the hormone, melatonin, is produced and released in response to changes in light. Melatonin plays a critical role in the body's biological clock, causing induction of sleep through its influence on circadian rhythms. Melatonin serves as the eyes to the body's organs. Since melatonin passes through all cell membranes, all cells receive the information that regulates the body's biological clock.<sup>†</sup>

Thiamine (vitamin  $B_1$ ) influences mental attitude and is related to maintaining a healthy nervous system. It enhances cognitive activity and brain function. Pyridoxine (vitamin  $B_6$ ) plays a predominant role in metabolic processes in the central nervous system and is necessary for normal brain function. It also helps regulate water balance throughout the body. Riboflavin (vitamin  $B_2$ ) enhances the effectiveness of the thyroid hormone and is involved in adrenal gland function. Niacin (vitamin  $B_3$ ) is important for normal nervous system function and also synthesizes the sex hormones.<sup>†</sup>

## Maintains cellular health

Excess free radicals cause severe damage to normal tissues and healthy cells. Antioxidants are substances that neutralize free radicals. Melatonin is the most efficient free radical scavenger among the body's natural antioxidants. Most scavengers work only in certain cells and in all limited cell locations. Melatonin, however, can permeate any cell throughout the body and provides special protection for the nucleus. Zinc, copper, and riboflavin support the immune system's antibody function. Vitamin B6 is required for DNA and RNA synthesis. Thiamine plays a vital role in energy release for all cells during carbohydrate metabolism.<sup>†</sup>

## Please copy for your patients.



#### Introduced in 1986

Content:

40 capsules Suggested Use: Two capsules per day, or as directed.

## Supplement Facts:

Serving Size: 2 capsules Servings per Container: 20

	Amount per Serving	%DV
Calories	5	
Cholesterol	5 mg	2%
Thiamine	0.9 mg	60%
Riboflavin	0.9 mg	50%
Niacin	40 mg	200%
Vitamin B <sub>6</sub>	8.9 mg	450%
Iron	8.9 mg	50%
Zinc	17.7 mg	120%
Copper	0.3 mg	20%

#### Proprietary Blend: 585 mg

Tillandsia usneoides, bovine orchic Cytosol<sup>™</sup> extract, porcine brain PMG<sup>™</sup> extract, bovine spleen, ovine spleen, defatted wheat (germ), bovine hypothalamus, bovine anterior pituitary, bovine liver, calcium lactate, paraaminobenzoate, bovine pituitary PMG<sup>™</sup> extract, porcine brain, and ascorbic acid.

Other Ingredients: Gelatin, zinc liver chelate, iron liver chelate, niacinamide, water, pyridoxine hydrochloride, copper liver chelate, calcium stearate, colors, cocarboxylase, and riboflavin.

Two capsules supply approximately: 30 mg bovine hypothalamus, 50 mg porcine brain PMG<sup>™</sup> extract, 25 mg bovine anterior pituitary, 89 mg bovine and ovine spleen, 89 mg bovine orchic Cytosol<sup>™</sup> extract, and 180 mg tillandsia powder.

Sold through health care professionals.

#### Whole Food Philosophy

Our founder, Dr. Royal Lee, challenged common scientific beliefs by choosing a holistic approach of providing nutrients through whole foods. His goal was to provide nutrients as they are found in nature-in a whole food state where he believed their natural potency and efficacy would be realized. Dr. Lee believed that when nutrients remain intact and are not split from their natural associated synergists-known and unknown-bioactivity is markedly enhanced over isolated nutrients. Following this philosophy, even a small amount of a whole food concentrate will offer enhanced nutritional support, compared to an isolated or fractionated vitamin. Therefore, one should examine the source of nutrients rather than looking at the quantities of individual nutrients on product labels.



# Neuroplex®

## How Neuroplex Keeps You Healthy (continued)

## Supports enzyme function

Riboflavin combines with a number of substances and proteins to produce coenzymes essential to cell metabolic functions. Vitamin B<sub>c</sub> acts as a coenzyme with other enzymes involved in cell growth and division. All cells depend upon iron to complete oxygen exchange because of its role in the function of most cell enzymes. Zinc and copper are essential to the structure and function of many enzymes. Copper-containing enzymes form a number of brain nerve transmitters.<sup>†</sup>

## What Makes Neuroplex Unique

## **Product Attributes**

## Multiple nutrients from a variety of plant and animal sources

- Tillandsia usneoides has long been known for its content of hormone precursors and vitamin E complex
- > Anterior pituitary, hypothalamus, pineal, brain PMG<sup>™</sup> extract, and orchic Cytosol<sup>™</sup> extract stimulate and provide support to the corresponding tissues in humans
- > Vitamins, minerals, and nutrients from plants and animal tissues work synergistically for maximum effect<sup>†</sup>

## Manufacturing and Quality-Control Processes Low-temperature, high-vacuum drying technique

> Preserves the enzymatic vitality and nutritional potential of ingredients

#### Not disassociated into isolated components

> The nutrients in Neuroplex are processed to remain intact, complete nutritional compounds

Degreed microbiologists and chemists in our on-site laboratories continually conduct bacterial and analytical tests on raw materials, product batches, and finished products

> Ensures consistent quality and safety

Vitamin and mineral analyses validate product content and specifications

> Assures high-quality essential nutrients are delivered

Studies on nutrients generally use large doses and these studies, some of which are cited below, are the basis for much of the information we provide you in this publication about whole food ingredients. See the supplement facts for Neurople?

- Agte V.V., et al. 1998. Effect of riboflavin supplementation on zinc and iron absorptio and growth performance in mice. *Biologic Trace Element Research* 65(2): and 9 109-1
- Herson LE. 1998. Mosby's Medical, Nursing, & Allied Health Dictionary. 5th ed. St. Louis, MO: Mosby: 1366, 1427. Ande
- ed. St. Louis, MC: Mostyr, 1366, 1427. Apgar J. 1985. Zinc and reproduction. Annual Review Nutrition Journal's: 43-68. Arakawa Y., et al. 1992. Zinc status in liver and gastrointestinal diseases. Journal of Nutritional Science and Vitaminology 526-529. Arendt. J. 1989. Melatonin: A New Probe in Psychiatric Investigation? Br. J Psychiatry Index. 2010.
- Arendt J. 1994. Clinical Perspectives for Melatonin and its Agonists [editorial].

- Aresidi, J. 1994. Clinical Perspecties for Melatonin and its Agoriats (editorial). Biol Psychiatry 55(1): 1-2.
  Batch, J.E., Batch P.A. 1997. Prescription for Nutritional Healing. 2nd ed. Garden Cayler, NY: Arey Publishing Group: 14-16.
  Batch, H.E., Batch, T.A. 1992. Antihumon Activity of the Pineal Gland: Effect of Universities of the Strategies of Havin in Caccily and Strategies (J. 1994). 21(3): 27-30.
  Batch U.H., Exhibit C.D. 1991. Analysis of Havin in Caccily Strategies of Havin in Caccily and Distribution and Distri

- Betaliar LJ, 1995, Nurvaice infanton incommenses Boda hauf, FL: Orc. Press: 88-105, Bosen JS, 1993, Brief communication: effect of pharmacologic does of vitrami B, on carpat lumel syndrome, electoencephalographic results, and pain. Journal of the American College for Nutrition 12(1): 73-76. Betrodorf, L. et al. 1996. Tharmine, hintime phasphases, and their metabolizing enzymes in the human brain. Journal of Neurochemistry 66(1): 220-258. Beyer CE, Stelette LJ), et al. 1998. Anotical thr Operaties of Melatonim—An Emerging Mystery. Biochem Pharmacol 56(10): 265-272. Bainerhom D, H, et al. 1993. Beneficial effects of colestion-Irain therapy on the common carolid artery. Two: and four-year reduction of Intime-media thickness measured by futureout. Circuitation 88(1): 20-28. Bowden S, et al. 1994. Alexhol, thiamin deficiency, and neurosychological disorders. Acknol Suppl 2: 277-272.
- Brady J.A., et al. 1995. Thimm status, duretic medications, and the management congesible heart blaue. Jourd of the American Dieter Association 56(6): 541-544.
  Brent B.E., Bartley E.E. 1984. Thiamin and niacin in the runner. Journal of Animal Science 55(9): 613-632.
  Brown M.A., et al. 1998. Nutrition supplements and the eje. Eye 12(PT1): 127-133.
  Brussand J.H., et al. 1997. Micrountiver status, with special reference to that in B. European Journal of Clinical Nutrition Stigol 430: 532-538.
  Buttervort R.F. 1995. Pathophysiology of dobnic Incan damage: specificities of etheroit, 101: 1-36.
  Buttervort R.F. 1995. Pathophysiology of dobnic Incan damage: specificities of etheroit, 101: 1-36.

- But Jongen DF. 1998; P. Oranga Industry of Upday D J. 202-202.
   Berles of effects of

- abortion in cores: implications for human fetal loss. Journal of Reproduction and Fertility 102(1): 253-226. Huether G. 1996. Melationin as an Antiaging Drug: Between Facts and Fantasy. Genontology 42(2): 87-96. Higoyen M., et al. 1991. Randomized, placebo-controlled trial of iron supplementation
- in infants with low hemoglobin levels fed iron-fortified formula [published erratum appears in *Pediatrics* 1992: 90(3): 474]. *Journal of Pediatrics* 88(2): 320-326. bob SW, Francone C.A., Lossow W.J. 1982. *Structure and Function in Man*.
- Sthed. Philadelphia, PA: W.B. Saunders Company: 509. Jan J.E., Espenzel H., et al. 1994. The Treatment of Sleep Disorders with Melatonin.
- Jan J.E. Expendel H. et al. 1994. The Treatment of Skep Disorders with Melatonin. Derr Marc Mill Neuroi 38(2): 97-107.
  Leeta M., et al. 1998. Effects of faic acid and vlatmin B, supplementation on women with hyserhomospatienenia and a history of precedampsia or fetal growth nesticitus. America Journal of Disofenics and Oprecology 179(1): 135-139.
  Lebrann P.M., Voller A, et al. 1997. Melatonin and the Immune System. Int Arch Allergy Immuno 1712(3): 2032-2014.
  Mars MA, et al. 1995. Thisd of the effects of disparation and the Immune System. Int Arch Allergy Immuno 1712(3): 2032-2014.
  Marssin An A, et al. 1995. Melatonin and the Immune System. Int Arch Allergy Immuno 1712(3): 2032-2014.
  Marssin AD, Tess J., Lartent Ophinose I toploidogy 6(6): 534-539.
  Massion AD, Tess J., et al. 1995. Melatonin and StreamProstate Carreer: Hypothesis and Preliming Jotat. Mel Hypothesis 44(1): 39-46.
  Oyama T, et al. 1994. Efficiency of serum copper/zinc ratio for differential deposite of palents with and vibiotuli topacer. Biology Trace Element Research 42(2): 115-127.
  Prov PD, Zen C. 1997. Melatonin: A Chrical Perspective. Am Neurol42(4): 545-553.
  Phonen, J., et al. 1998. Effect of vitamin B, supplementation in Mont42 (6): 545-553.
  Phonen, J., et al. 1998. Effect of vitamin B, supplementation in Mont42 (6): 545-553.

- Findertki, J., et al. 1996. Effect of Waitrin Fg. Supplementation in Micropers spaces strategic case study. *Neuromycensit Disorders* 85(2):210-212. *Endocrimol* 79(1-5):0153-0154.
  Relar RJ, 1992. The Aging Prival Gand and Its Physiological Consequences. *Biology* 10:161-175.
  Rotoc RJ, 1992. The Aging Prival Gand and Its Physiological Consequences. *Biology* 10:161-175.
  Rotoc RJ, 2003. The Physiological Consequences. *Biology* 20:161-175.
  Rotoc RJ, 2003. The Physiological Consequences.
  Biology 20:161-175.
  Rotoc RJ, 2003. The Physiological Consequences.
  Biology 20:161-175.
  Biol

- Rossowska M.J. 1995. Effect of dietary caffeine and zinc on the activity of antioxidant eroymes, zinc, and cooper concentration of the heart and her in fast-growing rats. Journal of biological Trace Ement Research 60(3): 229-236. Shils M.E., Young V.R. 1986. Modern Nutrition in Health and Disease: The d. Philadelphin, P.A. Lea & Fedger: 376-381. Urrow V. 1996. Melderanin for inscrimin and Jul. Lag (editorial). Amer Acad
- Turrow V. 1995; Melationin for Insomina and JetLag (editorial). Amer Acad Pendiatrics 37(3): 439-441.
  Two D.F., Russell P. 1999; The Nutrition and Health Encyclopedia. 2nd ed. New York, NY: Van Nastran Glarinoki. 445-446.
  Van Winsbergine D., et al. 1995; Human Anatomy and Physiology: 3rd ed. New York, NY: McGarwill, Ibis 37.
  Van Winsbergine D., et al. 1995; Human Anatomy and Physiology 3rd ed. New Heav York, NY: McGarwill, Ibis 67.
  Van Winsbergine D., Polis R. Human Anatomy and Physiology 3rd Heav York, NY: McGarwill, Ibis 67.

- ed. New York, NY: McGraw-Hill, Inc: 872. Webb SM, Pul-poloming M. 1995. Nole of Metatonin in Health and Disease. *Clin Endocrinol* 42(3): 221-234. William W. 1990. *Minihanal Epidemiology*, New York, NY: Oxford Linversity Press: 186. William E.D., et al. 1965. *Principles of Nutrition*. 2nd ed. New York, NY: John Wiley & Sons, Inc: 156–165. Wurtman R.J. 1986. Metatonin in Humars. *J. Neural Transm Suppl* 21: 1-8. Zangen A., Stinklerg A. 1997. *Prince editionary* in cardiac cells in culture. *Biochemical Pharmacology* 54(5): 575-582.

