



## Maitake D-Fraction®

### What Is It?

Maitake D-Fraction® is a bioactive compound extracted from whole maitake (*Grifola frondosa*) mushroom. Composed of uniquely branched, protein-bound beta-1,3-glucans and beta-1,6-glucans, Maitake D-Fraction is a front-line cellular support product widely used in Japan.\*

### Uses For Maitake D-Fraction®

- **Immune Support:** Via receptor mediation, Maitake D-Fraction helps to activate immune modulators such as macrophages and cytokines, promoting important immune system defense.\*
- **Cellular Support:** Maitake D-Fraction provides high capacity cellular support for liver, lung, breast, brain, and prostate health. Furthermore, this concentrated extract helps protect cells from environmental toxins.\*
- **Cardiovascular Support And Glucose Metabolism:** Pure Encapsulations' Maitake D-Fraction is combined with whole maitake powder. Preliminary research suggests that whole maitake may support healthy lipid metabolism, cardiovascular function, and glucose balance.\*

### What Is The Source?

Maitake D-Fraction is extracted from the fruiting body of whole maitake mushroom. Indigenous to the northeastern region of Japan, maitake is a large mushroom that grows in clusters at the base of oak trees. Maitake D-Fraction® is a registered trademark of Maitake Products, Inc. Vitamin C (pure ascorbic acid) and Vitamin C (ascorbyl palmitate) are derived from corn fermentation.

### Recommendations

Pure Encapsulations recommends 1 capsule (providing 20mg of Maitake D-Fraction, standardized to contain 30% D-fraction, and 250 mg whole maitake), 3 times per day, between meals.

### Are There Any Potential Side Effects Or Precautions?

Not recommended for pregnant or lactating women. May cause mild indigestion and/or loose stools in sensitive individuals.

### Are There Any Potential Drug Interactions?

At this time, there are no known adverse reactions when taken in conjunction with medications.

### References:

1. Preuss and Konno. Maitake Magic. Freedom Press, California 2002.
2. Konno S. Maitake D-Fraction: Apoptosis Inducer and Immune Enhancer. *Alternative & Complementary Therapies* April 2001.
3. Inoue A, Kodama N, Nanba H. Effect of maitake (*grifola frondosa*) D-fraction on the control of the T lymph node Th-1/Th-2 proportion. *Biol Pharm Bull* 2002 Apr; 25(4): 536-40.
4. Nanba H. Maitake D-fraction: Healing and Preventative Potential for Cancer. *The Journal of Orthomolecular Medicine*. 1997;12(1): 43-49.
5. Fullerton S, Samadi A, et al. Induction of Apoptosis in Human Prostatic Cancer Cells with b-Glucan (Maitake Mushroom Polysaccharide). *Molecular Urology*. 2000; 4 (1): 7-13.
6. Nanba H, Kubo K. Effect of Maitake D-Fraction on Cancer Prevention. *Ann NY Acad Sci*. 1997; 833: 204-7.
7. Nanba H. Activity of Maitake D-fraction to Inhibit Carcinogenesis and Metastasis. *Ann NY Acad Sci*. 1995; 768: 243-5.
8. Hishida I, Nanba H, Kuroda H. Antitumor Activity Exhibited by Orally Administered Extract from Fruit Body of *Grifola frondosa* (Maitake). *Chem Pharm Bull*. 1988; 36(5): 1819-27.
9. Talpur N, Echard B, Fan A, Jaffari O, Bagchi D, Preuss HG. Antihypertensive and metabolic effects of whole Maitake mushroom powder and its fractions in two rat strains. *Molecular and Cellular Biochemistry*. 2002; 237: 129-136.
10. Healthnotes Clinical Essentials. Copyright 2003. Healthnotes, Inc.

(continued)

**Maitake D-Fraction®**

**each vegetable capsule contains**



maitake D-fraction (Grifola frondosa) extract.....	20 mg.
(standardized to contain 30% D-fraction).....	6 mg.
whole maitake (Grifola frondosa) (fruit body) .....	250 mg.
vitamin C (as ascorbyl palmitate).....	25 mg.
vitamin C (pure ascorbic acid) .....	25 mg.

**3 capsules per day, in divided doses, between meals.**