

FemGuard + Balance™



Support for female hormone balance

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- Aids the endocrine system in balancing female hormones
- May reduce PMS, perimenopausal and menopausal symptoms
- Promotes favorable and safe conversion of estrogen
- Provides antioxidant and potentially cancer preventative effects
- Promotes healthy detoxification and elimination of excess hormones

FemGuard + Balance™ Features:

Chaste Tree Extract (*Vitex agnus castus*): The most commonly used herb worldwide for providing a balancing effect on female hormones. This balancing feature is characteristic of 'amphoteric' herbs, which raise or lower levels of a biomarker according to the necessity of the individual. The overall effect on most women is an increase in progesterogenic effects, prompting more regular cycles and a more optimal hypothalamic-pituitary-ovarian axis function. Isolated novel flavonoids from chaste tree have been found to exhibit antineoplastic activity¹ and hypoprolactinemic effects.^{2, 3}

Black Cohosh (*Actaea racemosa*): Another commonly used herbal compound in female health; it is classically used to reduce menopausal symptoms due to its gentle phytoestrogen action, as well as its ability to mildly reduce the production of luteinizing hormone (LH). Luteinizing hormone levels are significantly reduced by black cohosh extracts, whereas FSH levels are not. Black cohosh has been shown to reduce hot flashes, night sweats, vaginal dryness and thinning, sleep disturbances, and emotional symptoms in various studies.⁴⁻⁷ Black cohosh extracts have been shown to potentiate the effects of tamoxifen. However, it has not generally been shown to possess stimulatory effects on estrogen receptor positive breast cancer cells. Black cohosh has undergone extensive study, particularly in Germany, and has been shown to reduce menopausal and premenopausal symptoms. The antispasmodic feature of this herb can also relieve the cramping associated with menstruation.

Resveratrol (*Polygonum cuspidatum*): While this herb is most known for its strong antioxidant, cardiovascular protective, and potentially anticarcinogenic properties, it is also included in this formula due to its phytoestrogenic action. Resveratrol provides general antioxidant protection, as well as a safe hormonal balancing effect, particularly in perimenopausal and menopausal women.⁸⁻¹²

Turmeric (*Curcuma longa*), Rosemary (*Rosmarinus officinalis*), Grape Seed (*Vitis vinifera*), and Green Tea (*Camellia sinensis*): This combination of botanical ingredients provides a comprehensive antioxidant protective effect. Many of these compounds have been demonstrated to have potential anti-carcinogenic effects against female cancers.¹³⁻¹⁸ Designs for Health uses only the highest quality standardized herbs, including an unparalleled 50% EGCG green tea extract.

Supplement Facts			
Serving Size 4 capsules			
Servings Per Container 30			
Amount Per Serving	% Daily Value	Amount Per Serving	% Daily Value
Vitamin B-6 (as Pyridoxine HCl and Pyridoxa-5-Phosphate)	30 mg 1500%	Diindolylmethane (DIM)	100 mg *
Folate (NatureFolate™ blend)	400 mcg 100%	Black Cohosh Extract (<i>Actaea racemosa</i>)(root)	100 mg *
Vitamin B-12 (as Methylcobalamin)	400 mcg 6670%	[standardized to contain 2.5% triterpene glycosides]	
Calcium (as Calcium D-Glucarate, DimaCal® Di-Calcium Malate, TRAACS® Calcium Glycinate Chelate)	124 mg 10%	Chaste Tree Extract (<i>Vitex agnus castus</i>)(fruit)	100 mg *
Magnesium (as Di-Magnesium Malate)	50 mg 15%	[standardized to contain 0.5% agnusides]	
Calcium D-Glucarate	200 mg *	Turmeric (<i>Curcuma longa</i>)(root)	50 mg *
Phosphatidylcholine (from soy lecithin)	200 mg *	[standardized to contain 95% curcuminoids]	
Chrysin	200 mg *	Rosemary Extract (<i>Rosmarinus officinalis</i>)(leaf)	50 mg *
Green Tea Extract (<i>Camellia sinensis</i>)(leaf) [standardized to contain 98% polyphenols and 45% EGCG]	100 mg *	[standardized to contain 7% carnosic acid]	
BroccoRaphanin® (<i>Brassica oleracea italica</i>)(seed) [standardized to contain 10% sulforaphane glucosinolate]	100 mg *	Grape Seed Extract (<i>Vitis vinifera</i>)(seed) [standardized to contain 95% proanthocyanidins]	25 mg *
		Trans Resveratrol from 40 mg <i>Polygonum cuspidatum</i> (root)	20 mg *

*Daily Value not established.

Other Ingredients: Microcrystalline cellulose, vegetable stearate, silicon dioxide.

DIM (Diindolylmethane) and Chrysin: These two ingredients are included due to their ability to optimize safe aromatase conversion of estrogen to a more favorable balance of estrogen fractions. Improper aromatase conversion of estrogen has been associated with certain forms of breast and other female cancers. Dietary indoles, present in Brassica plants such as cabbage, broccoli, and Brussels sprouts, have been shown to provide potential protection against hormone-dependent cancers. Diindolylmethane (DIM) studies show it to be the most protective of all the indole metabolites. DIM has been reported to provide benefits in women with symptoms of perimenopause including PMS, painful or excessive periods, endometriosis, and even cervical dysplasia. Women on hormone replacement therapy (HRT) may also benefit from DIM supplementation with improved estrogen metabolism and breast pain reduction.¹⁹⁻²¹

Calcium and Magnesium: Supplementation with these minerals has been demonstrated to reduce premenstrual syndrome (PMS) symptoms and may result in more efficient enzymatic activity, less cramping and healthier bone density.^{22, 23} As with all Designs for Health products, the minerals provided are in forms which allow for a high level of bioavailability.

Vitamins B6, B12, and Folate (as NatureFolate™ blend): These nutrients are included to promote proper cell differentiation, including those of the cervix, which may reduce the incidence of cervical dysplasia. Cervical cancer is a major health concern. Regular gynecological check-ups and PAP smears, combined with FemGuard + Balance™, can represent a positive approach to cancer prevention.²⁴⁻²⁵ These B vitamins also lower homocysteine, a marker for heart disease.

How to Take: Take four capsules per day, or as directed by your health care practitioner. FemGuard + Balance™ should not be used in women with active breast cancer. Not for pregnant or lactating women.

References

1. Hirobe C, et al. Cytotoxic flavonoids from Vitex-agnus-castus. *Phytochemistry*, 46:521-24, 1997.
2. Milewicz A, et al. Vitex agnus-castus extract in the treatment of luteal phase defects due to latent hyperprolactinemia. Results of a randomized placebo-controlled double-blind study. *Arzneimittelforschung* 43:752-56, 1993.
3. Sliutz G, et al. Agnus-castus extracts inhibit prolactin secretion of rat pituitary cells. *Horm Metab Res*, 25:253-55, 1993.
4. Duker E, et al. Effects of extracts of Cimicifuga racemosa on gonadotropin release in menopausal women and ovariectomized rats. *Planta Med*, 57:420-24, 1991.
5. Jarry H, Harnischfeger G. Studies on the endocrine effects of the contents of Cimicifuga racemosa: 1. Influence on the serum concentration of pituitary hormones on ovariectomized rats. *Planta Med*, 1:46-49, 1985.
6. Nesselhut T, Borth S, Kuhn W. Influence of Cimicifuga racemosa extracts with estrogen-like activity on the in vitro proliferation of mamma carcinoma cells. *Arch Gynecol Obstet* 254:817-8, 1993.
7. Lieberman S. A review of the effectiveness of Cimicifuga racemosa (black cohosh) for the symptoms of menopause. *J. Women's Health* 7(5):525-9, 1998.
8. Kopp P. Resveratrol, a phytoestrogen found in red wine. A possible explanation for the conundrum of the 'French paradox'? *European Journal of Endocrinology* 138:619-620, 1998.
9. Jang M and others. Cancer chemopreventive activity of resveratrol, a natural product derived from grapes. *Science* 275:218-220, 1997.
10. Gehm H and others. Resveratrol, a polyphenolic compound found in grapes and wine, is an agonist for the estrogen receptor. *Proceedings of the National Academy of Sciences U.S.A.* 94:557-562, 1997.
11. Frankel EN, Waterhouse AL, Kinsella JE. Inhibition of human LDL oxidation by resveratrol. *Lancet* 341:1103-1104, 1993.
12. Clement MV and others. Chemopreventive agent resveratrol, a natural product derived from grapes, triggers CD95 signaling-dependent apoptosis in human tumor cells. *Blood* 92:996-1002, 1998.
13. Masuda T, Toi Y. Structural identification of new curcumin dimmers and their contribution to the antioxidant mechanism of curcumin. *J Agric Food Chem*. 2002 Apr 24; 50(9): 2524-30.
14. Di GH, Li HC, Shen ZZ, Shao ZM. Analysis of anti-proliferation of curcumin on human breast cancer cells and its mechanism *Zhonghua Yi Xue Za Zhi*. 2003 Oct 25;83(20):1764-8
15. Wei SC, Lin YS, Tsao PN, Wu-Tsai JJ, Wu CH, Wong JM. Comparison of the anti-proliferation and apoptosis-induction activities of sulindac, celecoxib, curcumin, and nifedipine in mismatch repair-deficient cell lines. *J Formos Med Assoc*. 2004 Aug;103(8):599-606.
16. Debersac P, Vernevaut MF. Effects of a water-soluble extract of rosemary and its purified component rosmarinic acid on xenobiotic-metabolizing enzymes in rat liver. *Food Chem Toxicol*. 2001Feb;39(2):109-17
17. Mukhtar H, Ahmad N. Tea polyphenols: prevention of cancer and optimizing health. *Am J Clin Nutr*. 2000 Jun;71(6 Suppl):1698S-4S.
18. Kim H, et al. Chemoprevention by grape seed extract and genistein in carcinogen-induced mammary cancer in rats is diet dependent. *J Nutr*. 2004 Dec;134 (12 Suppl):3445S-3452S.
19. Dalessandri KM, et al. Effect of 3,3'-diindolylmethane (DIM) supplements on urinary estrogen metabolites in postmenopausal women with breast cancer. *Nutrition and Cancer*, in press.
20. Tou J, Hong C, Bjeldanes LF. The influence on 3,3'-diindolylmethane on breast cancer tumor growth, Invasion and metastasis. *Experimental Biology*, 2001 Apr; Orlando, FL, Meeting abstract.
21. Fishman J., Schneider J., Herschcope RJ., Bradlow HL. Increased estrogen 16-alpha-hydroxylase activity in women with breast and endometrial cancer. *J Steroid Biochem*. 1984; 20(4B): 1077-1081.
22. Thys-Jacobs S et al. Calcium supplementation in premenstrual syndrome: a randomized crossover trial. *J Gen Intern Med* 4(3):183-9, 1989.
23. Facchinetti F et al. Oral magnesium successfully relieves premenstrual mood changes. *Obstet Gynecol* 78(2):177-81, 1991.
24. Butterworth CE, et al. Improvement in cervical dysplasia associated with folic acid therapy in users of oral contraceptives. *Am J Clin Nutr*. 1982 Jan; 35(1):73-82.
25. Hernandez BY, et al. Diet and premalignant lesions of the cervix: evidence of a protective role for folate, riboflavin, thiamin, and vitamin B-12. *Cancer Causes Control*. 2003 Nov; 14(9):859-70.