

**Consulting in Human Health, Toxicology & Regulatory Affairs** 

Phytor Ltd.

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Summary for the Product LADYMEL-DAY

LADYMEL-DAY is a product from Zuf Globus which aims at balancing the level of

female hormones mainly during perimenopause and menopause when hormonal

balance can be disrupted. The product is recommended for healthy women during

perimenopause and menopause, who wish to modulate the hormonal balance thus

helping the woman to cope with symptoms like hot flashes, nervousness and

restlessness that are associated with menopause and PMS. LADYMEL-DAY

components support a healthy female hormonal system and fight agents caused by

stress.

The bees' feed utilized for producing *LADYMEL-DAY* is comprised by a unique blend

of herbs which are known for their biological activities on the female hormonal system.

The biological activities produced by the chemical constituents of these herbs are

recorded on the WHO monographs and are corroborated by numerous peer-reviewed

scientific publications.

The product is offered in two versions (day and night). The elements of each formula

take into consideration the natural biological clock and the female circadian rhythms

determining the sleep patterns which involve the control of the production of melatonin.

LADYMEL-DAY herbal components assist to adapt to many and varied environmental

and psychological stresses by supporting the female hormonal system during

menopause and PMS.

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The main biological activities of LADYMEL-DAY related to its herbal components is

listed below:

1) Trifolium pratense

The major active chemicals found in *Trifolium pratense* are isoflavones, mainly

Genistein and its metabolites Equol, Isoequol and Dehydroequol. These compounds

have strong anti-inflammatory as well as estrogenic effects. Different concentrations of

isoflavones present in this herb are also associated with a significant increase of thyroid

hormones levels in plasma.

2) Vitex agnus-castus

Two major group of compounds are found in this plant: Flavonoids (Casticin,

Cymaroside and Chrysosplenol D are the major) and Diterpenes (Vitexilactone,

Rotundifuran and Vitexlactam A). These herbal compounds are recognized by the

monographs to play a role in the symptomatic treatment of gynecological disorders

including premenstrual syndrome, menstrual irregularities, dysmenorrhea etc.

In addition, there is evidence that an extract from the fruits may prolong lactation in

breastfeeding women.

3) Matricaria recutita

This plant's essential oil comprises mainly the compounds chamazulene,

α-bisabolol and their related sesquiterpenes. Apigenin is the major flavonoid, constitute

up to 8%. These compounds are mainly used for treating gastric and digestive

discomfort as well as for the treatment of restlessness and in mild cases of insomnia.

4) Eleutherococcus senticosus

Eleutherococcus senticosus, also called Siberian ginseng, was reported to have

adaptogenic/anti-stress activity and may boost mental performance. In addition, it may

stimulate the immune system. Eleutherococcus senticosus also shows anti-microbial

activity.

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5) Calendula officinalis

The major constituents of this herb are triterpene saponins (2–10%) based on oleanolic

acid (i.e. calendulosides) and flavonoids (3-O-glycosides of isorhamnetin and

quercetin).

Polysaccharides isolated from Calendula were reported to enhance phagocytosis by

human granulocytes, thus supporting the immune system.

6) Medicago sativa

There are numerous reports from in vivo studies showing that Medicago sativa can

lower blood cholesterol levels. In addition, it may relieve menopause symptoms.

7) Mentha piperita

The two major constituents of this herb are the monoterpenes menthol (30–55%) and

menthone (14–32%). Both compounds are known for their biological activity on gastric

and digestive discomfort. There are some reports that the essential oil can have

analgesic effect as well improving cognitive performance.

8) Actaea racemosa

The major constituents include the cycloartanol-based triterpenes acteol, actein,

cimigenol and cimicifugoside. Isoflavones were also identified.

Experimental data indicates the effects of these compounds on the female hormonal

system. Clinical data support the use of this herb to treat symptoms of menopause such

as hot flashes, sleeping disorders and nervousness.

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## Bibliographic References in addition to the WHO monographs regarding the herbal substances in the formula

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