

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

Phytor Ltd.

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**Summary for the Product ENERGYMEL** 

Aging, underlying illness, overexertion and daily stress are all common causes of

fatigue. Stimulants are generally used to boost energy. *ENERGYMEL* is a product from

Zuf Globus which is not a stimulant. It aims at fending off the effects of stress and aging

by restoring energy naturally and strengthening the homeostasis. It acts as an adaptogen

with strong antioxidant and anti-inflammatory activities as well as anti-stress activity

and may boost mental performance. The product is recommended for healthy people

who want to strengthen the body systems and fight agents that cause stress. It is

important to notice that healthy habits like exercising, drinking a lot of liquids and a

proper amount of sleep are required for a better performance of *ENERGYMEL*.

The unique blend of herbs which comprise the bees' feed used to produce is long

recognized as energy-boosting herbs that can help fight the effects of stress and restore

energy naturally, as opposed to stimulants such as caffeine which indeed give the body

an extra boost. However, in the long run it can actually leave you even more tired.

The biological activities of the herbs found in *ENERGYMEL* are recorded on the WHO

monographs and are corroborated by numerous peer-reviewed scientific publications.

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The main biological activities of ENERGYMEL related to its herbal components is

listed below:

1) Aralia racemosa

The major groups of compounds found in this plant are terpenoids, saponins and

acetylenic lipids. These are thought to produce anti-inflammatory effects, as well as

hypoglycemic and hepato-protective effects. In addition, some reports suggest that

these compounds may protect the cardiovascular system against ischemic events.

2) Angelica atropurpurea (dong quai , Angelica sinensis)

The major chemical constituent of the roots is alkyl ligustilide. Other characteristic

components are terpenes (mainly \beta-cadinene and carvacrol), phenylpropanoids,

benzenoids and coumarins. Recent experimental evidences suggest that these

phytochemicals act as immunoregulators and antioxidants as well as producing

neuroprotective and memory amelioration effects

3) Inula helenium

The main active ingredients are sesquiterpene lactones, mainly alantolactone,

isoalantolactone and alloalantolactone. In experimental models, these compounds

exhibit potent anti-oxidant and anti-inflammatory activities, as well as exert

antimicrobial functions.

4) Plantago major

Plantago major main chemical constituents are the flavonoids hispidulin, luteolin and

apigenin. fatty acids and polysaccharides were also identified.

Several experimental reports support the use of these compounds produce a wide range

of pharmacological activities, including anti-inflammatory, Antinociceptive and

antimicrobial.

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5) 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 hormonal balancing. In addition, both experimental and

clinical data point to the ability of these ingredients in aiding and enhancing fracture

healing.

6) 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

and antioxidant activities.

7) Schisandra chinensis

The major groups of chemicals are dibenzocyclooctadiene lignans, mainly Schisandrin

A and B. Experimental reports show the evidence that these compounds act as potent

anti-oxidant and anti-inflammatory agents. Additional studies suggest that these

compounds can provide neuroprotection and cognitive enhancement.

8) Panax ginseng

The major chemical constituents are triterpene saponins and various forms of

ginsenosides. Experimental data indicate their immunomodulatory as well as

adaptogenic effects. In addition, clinical studies point to the fact that these herbal

ingredients significantly elevate oxygen uptake during exercise, thus acting as

antifatigue mediators.

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