Garlic Extracts

Description
EUROMED garlic extract is an oily herbal extract of *Allium sativum* L. bulb, a small perennial plant cultivated in Spain.

Chemistry
Garlic medicinal effects are primarily due to allicin and its transformation products. This compound is a transformation product from alliin (S-allyl-L-(+)-cysteine sulfoxide), a chief constituent of fresh undamaged garlic which is degraded by the enzyme alliinase (S-alkyl-L-(+)-cysteine lyase) when the tissues are cut or bruised. Other compounds found in garlic bulbs are carbohydrates (fructans) and saponins (furostanol glycosides: sativin, proto-erubin B, and more).

Indications
Extracts of garlic are used in the treatment of elevated blood lipid levels insufficiently influenced by diet, in the improvement of the circulation in peripheral arterial vascular disease and to prevent the age-dependent vascular changes. Garlic extracts also have antibacterial and antymycotic properties, inhibit platelet aggregation, prolong bleeding and clotting time and enhance fibrinolytic activity.

Contraindications, interactions and side-effects
Garlic extract is generally well tolerated. No health hazards or side-effects are known with the proper administration of designated therapeutic dosages. In exceptional cases gastrointestinal irritation or allergic reactions may occur.

There are no known interactions with other drugs. There are no objections to use during pregnancy and lactation.

Therapeutic Safety
To-date acute cases of garlic extract poisoning have not been reported.
Analytical Specifications

Denomination
GARLIC OIL MACERATE

Used plant drug
Allium sativum L.

Used plant parts
Bulb

Aspect
Pale yellow oil with a garlic odour

Identification
GC fingerprint

Loss on drying
Max. 10.0 meq O₂/kg

Assay
Macerate 1:1
- Allicin min. 1200 ppm (GC)

Macerate 2.4:1
- Allicin min. 2800 ppm (GC)

Microbiology
Acc. Ph. Eur. 5.1.4, cat 3B

Selected References

- www.euromed.es

HPLC fingerprint of a EUROMED garlic oil macerates