

# Valerian dry extract 0,8% valerenic acids

by **EVEAL** EXTRACTION, a french industry European specialist in botanical extract over 3 generations Standardised/titrated plant extracts - Custom extracts



#### **Roots sourced : our selection**

A well nutured and carefully harvested roots ensures the best quality extract. The valerian roots are cultivated in Europe and tested to guarantee a high quality raw material. Following tests are conducted and each batch of incoming valerian dried roots:

Botanical identification of the roots according to European Pharmacoopeia.

### ontaminants controls

- Pesticides residus according to European Pharmacoopeia and food regulation 396/2005
- Heavy metals
- Aflatoxins
- PAH Polycyclic aromatic hydrocarbon
- Microbiological tests

#### **Extraction process : our expertise**

After acceptance of these tests, the raw material will be released and available for extraction process which will includes:

- · Grinding of the raw material
- Solvent extraction
- Concentration in liquid form in batches
- A gentle evaporation process under vacuum conditions to conserve the specific active of the raw material.
- Examination and standardisation to Brix degrees of stability
- Drying and packing through a 700 m2 area devoted to cross-checked decontamination respecting GMP-Good Manufacturing Process.

# specification <

#### VALERIAN DRY EXTRACT 0.8% valerenic acid

Ethanol 60% v/v extraction of Valeriana officinalis L. roots. concentrated and spray dried on maltodextrin.

Packing 25 kg cardboard box

Storage In dry and cool place away from light

Product code

ANALYSES

SPECIFICATIONS

METHODS

#### CHARACTERISTICS

Organoleptic characters

Beige to light brownish powder with strong smell

#### **IDENTIFICATION**

Thin layer chromatography TLC Presence of valerenic acid EP valerian hydralcohol and acetoxyvalerenic acid

#### TRIAL

Loss on drying (%) m/m	Not more than 6.0	EP* 2.8.17
Granulometry	Not less than 97% through 300 μm	EP* 2.9.12

EP\* 2.4.8 C Heavy metals search Not more than 20 ppm Valepotriate seach No blue coloration

Lead content in ppm Not more than 3 EP\* 2.4.27

EP\* 2.4.27 Cadmium content in ppm Not more than 1

Mercury content in ppm Not more than 0.1

Arsenic content in ppm Not more than 1 EP\* 2.4.27 Pesticides residues in herbal drug Conform

#### DOSAGE

Acids sesquiterpenic content expressed as valerenic acid (%) m/m

#### MICROBIOLOGICAL

CHARACTERISTICS

Total aerob germ at 30°C Not more than 10 000 germs/g

Yeast and moister Not more than 100 germs/g EP\* 2.6.12 / 2.6.31 Enterobacteria Not more than 100 germs/g

Not less than 0.80

Staphylococcus aureus None in 1a

Escherichia coli None in 1g Salmonella None in 25 q

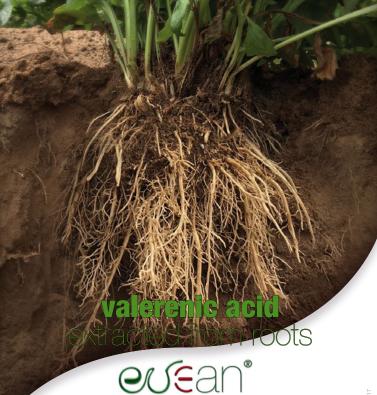
European Pharmacoopeia

EP\* valerian hydralcol

dry extract monograph

EP\* 2.6.12 / 2.6.31





## The benefits of pharmaceutical norms

- Several types of know how are brought together
- 30 years experience in many fields, of which the pharmaceutical area is one
  - Good Manufacturing Process certified evear's valerian dry extracts are available according to the following specifications:

0.25 %, > 0.45 % or > 0.80 %

Total sesquiterpenic acids expressed as Valerenic acid by HPLC



French manufacturer of titrated and standardised plant extracts over 3 generations

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