

ECHINACEA PURPUREA DRY EXTRACT

(*Echinacea purpurea* (L.) Moench)



BOTANICAL DESCRIPTION:

Dried cut aerial and underground parts of *Echinacea purpurea* (L.) Moench.

Accurate selection and identification of Purple Coneflower herb or root according to current monographs of European Pharmacopoeia: "1823: Purple coneflower herb" and "1824: Purple coneflower root",

EXTRACT INFORMATION:

Echinacea Purpurea Dry Extract is obtained from aerial part and/or root of *Echinacea purpurea* (L.) Moench by aqueous or hydroalcoholic extraction.

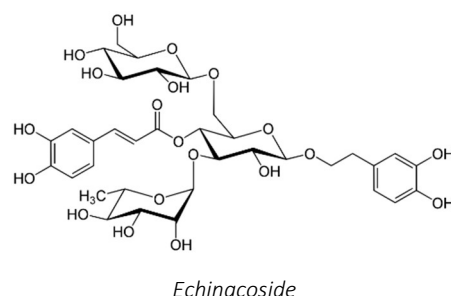
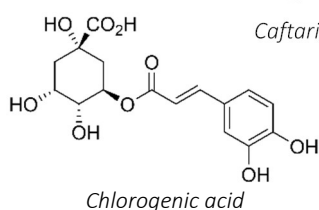
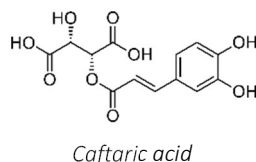
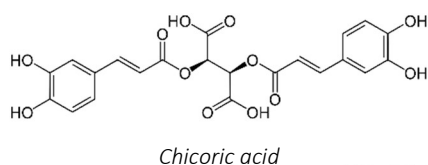
ECHINACEA PURPUREA DRY EXTRACT is available from Organic crops.

INCI Name; ECHINACEA PURPUREA EXTRACT

CAS: 90028-20-9

EINECS: 289-808-4

CONSTITUENTS: Caffeic acid derivatives: Chicoric acid, Caftaric acid, Echinacoside and Chlorogenic acid.



Select Botanicals Extracts comply with the requirements of any relevant monograph in the European Pharmacopoeia and/or European Directives applicable to the end use of the extract.

Select Botanical, S.L. manufactures Highest Quality Extracts following strictest Quality Management System in compliance with the "Good Manufacturing Practices" (GMP) requirements, carrying on the last manufacturing steps in classified areas (Clean Rooms).

PHYTOTHERAPY INDICATIONS:

- Traditional herbal medicinal product for the supportive treatment from common cold ^(3,6)
- Adjuvant therapy and prophylaxis of recurrent infections of the upper respiratory tract (common cold). ⁽²⁾

- Immunomodulatory ^(4,6)
- Anti-microbial ^(4,6)
- Anti-viral ^(4,6)
- Anti-inflammatory ^(4,6)
- Antioxidant ^(4,6)

ACTIVITIES AND PHARMACOLOGICAL STUDIES:

- **Immunomodulatory activity:** Different *in vivo* and *in vitro* experiments showed an influence on immune functions, such as a macrophage activating capacity. Echinacea has been found to be a highly promising immunostimulant from nature. ^(4,5,6)
- **Anti-inflammatory activity:** Different *in vivo* tests have proved an anti-inflammatory activity. A fraction from Echinacea root consisting of 10 polyunsaturated isobutylamides had an inhibitory effect in a 5-lipoxygenase assay. ^(2,4,6)
- **Anti-microbial activity:** *Echinacea purpurea* was found to have antiviral activity against herpes virus and influenza virus in human cell model. In placebo-controlled trials *Echinacea purpurea* root in combination with other herbal drugs was reported to be successful in reducing the severity of symptoms of common cold or flu. ^(4,5,6)
- **Antioxidant activity** ^(4,5,6)

DOSAGE AND ADMINISTRATION:

Dosage and administration:

Herbal preparations are in solid dosage forms for oral and oromucosal use.

Recommended dosage and administration are indicated in the European Union herbal monograph on "*Echinacea purpurea* (L.) Moench, herba" **EMA/HMPC/48704/2014**, and on "*Echinacea purpurea* (L.) Moench, radix" **EMA/HMPC/424583/2016**.

Undesirable effects:

Hypersensitivity reactions (skin reactions) may occur. The frequency is not known. ^(2,3)

Precautions/Contraindications:

In the absence of enough data, the use during pregnancy and lactation is not recommended. ^(2,3)
Known hypersensitivity to the active substance or to plants of Asteraceae (compositae) family. ^(2,3)

The use in children under 12 years of age has not been established due to lack of adequate data. ⁽³⁾

BIBLIOGRAPHY AND OTHER REFERENCE SOURCES:

1. Current monograph "1824: Purple coneflower root" of European Pharmacopoeia edition.
2. ESCOP Monographs. Second edition. 2003.
3. Community Herbal Monograph on *Echinacea purpurea* (L.) Moench, radix. EMA/HMPC/424583/2016. May 2017.
4. Assessment Report on *Echinacea purpurea* (L.) Moench. Radix. EMA/HMPC/424584/2016. May 2017.
5. Kumar K.M., Ramaiah S. Pharmacological Importance of *Echinacea purpurea*. International Journal of Pharma and Bio Sciences. Vol. 2, Issue 4, 2011, 308-314.
6. Assessment report on *Echinacea purpurea* (L.) Moench., herba recens. EMA/HMPC/557979/2013
7. European Union herbal monograph on *Echinacea purpurea* (L.) Moench, herba recens. EMA/HMPC/48704/2014
8. Current monograph "1823: Purple coneflower herb" of European Pharmacopoeia edition

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