

CICHORIUM EXTRACT

DRY HERBAL EXTRACT FROM CICHORIUM INTYBUS

CHARACTERISTICS AND STANDARDS

Appearance	Amorphous powder
Colour	Green-Brown to Brown
Taste & Odour	Specific to plants
Solubility	Small solubility in water and 50% ethanol
pH (0,1% solution)	4.0 to 7.0
Sulphated ash, %, not more than	10.0
Loss on drying, %, not more than	5.0
Heavy metals, sum determined as Lead, %, not more than	0.001
Cumarins, determined as esculin, based on dry substance, %, not less than	9.0
Flavonoids, determined as apigenin, based on dry substance, %, not less than	7.0
Tannic compounds, determined as tannin, based on dry substance, %, not less than	4.5
Microbiology	
Total viable count, CFU/g, not more than	10 ³
Mould, CFU/g, not more than	10 ²
Yeast, CFU/g, not more than	10 ²
E.coli, Salmonella spp., S. Aureus, CFU/g	Must not be detected
Content of extraction solvent residues	Must comply with Ph.Eur.
Excipients	None
Packaging	Polyethylene bags placed in a five layer carton box: 10.0 kg net per box
Storage	Store at temperatures not higher than 25°C
Shelf life	36 months under the previous mentioned conditions in its original packaging

THE PLANT

Cichorium intybus is a bushy perennial herb with blue or lavender flowers from the Asteraceae family. It is common in the low parts of the country, near roads, in dry meadows and as a weed in the wheat fields. The plant holds a wealth of polyphenols, organic acids, mineral acids, fructans, coumarin derivatives and other phytochemicals.

THE PROPRIETARY EXTRACT

The herb for the production of our product is gathered in the period of flowering, it is dried and ground in compliance with all technical requirements, in order to preserve the active substances present in it. The extract is derived through water-alcohol extraction of the prepared plant material and a subsequent concentration of the intermediate liquid product. The concentrated liquid extract is dried to produce the finished product. The technology employed in the production guarantees complete extraction of the active substances present in the aerial parts of the herb.

BIOLOGICALLY ACTIVE SUBSTANCES

The properties of the extract are due to the content of specific active ingredients extracted from the plant *Cichorium intybus*, containing the coumarin derivatives esculetin, 7-glucoside-esculetin (cichorin), esculin, scopoletin and umbelliferone, the flavonoids apigenin, luteolin, quercetin, kaempferol, anthocyanins, presented mainly by delphinidina derivatives and tannin compounds. The content of esculin and cichorin is predominant in the dried plant material and together with esculetin provide for the anti-inflammatory and anti-microbial properties of the extract.

MODE OF ACTION AND APPLICATIONS

The flavonoids apigenin, quercetin and luteolin, present in the extract dilate the smallest capillary vessels, help oxygenate blood, stimulate the metabolism and positively influence the enzyme systems, involved in the detoxification of the body. A combination of coumarin and flavonoid derivatives forms a signature flavono-coumarin active complex that shows a distinct positive effect on the gall, renal and hepatic functions by supporting the discharge of bile acids and toxins from the body. The active complex also supports the reduction of glutathione and shows cardio-protective properties. The extract can be used by patients with cardio-vascular problems, in cases of gall, renal and hepatic conditions.

This product is manufactured and controlled according to principles and requirements of ISO 9001:2008, HACCP, FSSC 22000:2011, Halal, Kosher, GMP



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