

Specification Sedox

Product:	SEDOX
Code:	0247630.EPO
Botanical name:	Plantago lanceolata L.
INCI name:	PLANTAGO LANCEOLATA LEAF EXTRACT
CAS number:	85085-64-9
EINECS/ELINCS number:	285-388-1
Extraction solvent:	ethanol 35%
E/D Ratio:	1/1
Botanical family:	Plantaginaceae
Origin of the raw material used for this product:	EasternEurope
Growing condition:	cultivated
Vegetative period:	after flowering
Collection period:	summer
Part of plant used:	leaves
Preparation type:	fluid extract
Intended Use:	Raw material for food and cosmetics.

Active substances of the plant:

iridoid glucosides (aucubin, catalpol, asperuloside), mucilage, flavonoids, tannins

Biological marker:

Verbascoside

Physiologic and healthcare applications:

Anti-inflammatory, emollient and soothing for the respiratory system (used as a demulcent for oral or pharyngeal irritations, dry cough). Tone of voice. Digestive. Topical use: antimicrobial. Also used in wound healing.

Toxicological data:

plant extract of natural origin for which no experimental data are available for acute toxicity, by analogy with chemically similar products are assumed a moderate level of acute toxicity

Radioactivity:

< 600 Bq/kg

Contra-indications, warnings:

none known

Eventual particular notes:

none

Nutritional values:

Not applicable - Energy value given by ethanol content

Preservatives:

absent

Antioxidants:

absent

Storage conditions:

store in a well closed container away from moisture and direct sun light

Retest Date:

three years

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(Analytical methods from Ph. Eur. current edition, except where otherwise specified)

Product:	SEDOX
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Definition:	the extract is produced from the dried leaf and scape of <i>Plantago lanceolata</i> L. by a suitable procedure
Description:	clear liquid
Colour:	dark brown
Odor:	characteristic
Taste:	characteristic
TLC:	complies to Ph. Eur. current edition*
Assay ORAC:	> = 30 micromoli Trolox / g*
Assay: Verbascoside (HPLC met.)	>= 0,007 % w/w
Assay Total Phenols:	> = 1.5 milligramms gallic acid / ml*
Ethanol content:	26,0 - 30,0 % v/v
Density:	1,020 - 1,070 g/ml
Total solids:	>= 18,0 % w/v
pH:	5,0 - 6,0
Heavy metals:	< 20 ppm (method C Ph. Eur. current edition)
Lead (ref. Reg. (EC) 1881/2006):	< = 3.0 ppm*
Cadmium (ref. Reg. (EC) 1881/2006):	< = 1.0 ppm*
Mercury (rif. Reg. (EC) 1881/2006):	< = 0.10 ppm*
Pesticides:	complies to Ph. Eur. current edition and Reg. 2005/396/EC and amendments concerning pesticides residues searched*
Aflatoxins:	Aflatoxin B1: < 2 ppb* Aflatoxin B1,B2,G1,G2: < 4 ppb*
Benzo(a)pyrene (Reg. (EC) 1881/2006):	< = 10 ppb*
Sum of Benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene and chrysene (Reg. (EC) 1881/2006):	< = 50 ppb*
Microbiological quality (Ref. Ph. Eur. current edition depending on the intended use)	
- Bacterial count (TAMC: ref. 5.1.4, oral use):	< = 2 x 10.000 cfu/g
- Yeasts and Moulds (TYMC: ref. 5.1.4, oral use):	< = 2 x 100 cfu/g
- Pathogens (ref. 5.1.4, oral use):	Salmonella: absent in 10 g* Escherichia coli, Staphylococcus aureus: absent in 1 g*
Bile-tolerant gram-negative bacteria (ref. 5.1.4, oral use):	< = 100 cfu/g*
Flashing point:	32-34°C
Boiling point:	ca 80° C
Note:	GMO: Free from GMO (Reg. (EC) 1829/2003 and 1830/2003) BSE/TSE FREE - GLUTEN FREE ALLERGENS: Free from substances or products causing allergies or intolerances (Reg. (EU) 1169/2011 Annex II)

(*) analysis performed on basis of specific self-control plan

The data reported in this Technical Data Sheet (excluding analytical ones) are taken from literature, among which (if applicable) Italian ministerial guidelines for physiological effects and CosIng (European Commission database for information on cosmetic substances).
In any case this information will not discharge you from duty to identify and to monitor the product according to the use to which it is intended and the current legislation in the Country of use.

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