## **European Goldenrod**

#### Summary and Pharmaceutical Comment

Phytochemical details have been documented for European goldenrod but no constituents have yet been identified to support its pharmacological actions. The traditional use of European goldenrod as a diuretic has been well documented but there is a lack of sufficient clinical data to support this use, or a possible mechanism of action. There is also a lack of clinical safety and toxicity data for European goldenrod and further investigation of these aspects is required.

#### Species (Family)

Solidago mirganesa L. (Asteraccae)

#### Synonym(s)

Goldenrod

#### Part(s) Used

Flowering aerial party

#### Pharmacopoeial and Other Monographs

In BHC 2006 (Goldenrod, European); BHP 2006 (Goldenrod, European); BP 2012 (European Goldenrod).

#### PhEur 7.5

The whole or cur, dried, flowering aerial parts of Solidago singames L.

European goldenrod is also included in the Complete German Commission E, ESCOP 2003, HMPC monographs and Marcindale 37th edition.

#### Constituents

The following is compiled from several sources, including general references. (1.2)

Diterpenes: Nine vis-clerodane diterpenes (cannaclerodanolide, (52,82)-3,13-clerodadim-16,15:18,19-diolide, and solidagone acids (C-I) have been identified from plant material harvested in southeastern Bulgaria. Cai-Clerodane lactories, including solidagelactories II, III, V, VII, VIII and seven related compounds have been isolated from plant material of Indian origin (Khasi Hills, Meghalaya). Ca

Eisenblaf ods. The main components found in steam-distilled oil from fireth flowering supe collected in the Russian Altai at 200 m (0.22% pure pellow light oil) were 2-pinces (36.5%), myrecese (14.8%), β-carpophyllene (10.5%), germacrose (36.5%), β-pinese (7.1%), and limonene+β-phellandome (6.4%). Similarly at 8-may between (7.0%), β-carpophyllene (6.4%), germacrose between (6.4%), germacrose between (6.4%), germacrose between (6.4%), germacrose between (6.4%), and 2-harmalone (6.4%). The aerial parts at flowering stage collected from three sites in Poland parts at flowering stage collected from three sites in Poland yielded 0.32-0.38% excential oil described as 'intense and spicy, with a wormwood note'. Among 60 constituents identified,

germacrone D, limonene, myrcene, α- and β-pinerie, and sabinene were major components. <sup>(a)</sup> Essential oil yield and composition of aerial parts differs slightly between micropropagated and wild harvested material. <sup>(a)</sup>

Flowwoolds: The following flavored aglycomes have been foundleaemptiered, querectin, and isorhammetin; also flavored glycosides; 3-arabinosides, 3-galactosides, 3-glacosides, 3-robinosides, and 3-rutinosides of kaemptierol and querectin, 3-galacroside, 3-glacoside, and 3-rutinoside of isorhammetin, rhammetin 3-rhammeglacoside (glycoside linkage unspecified). New Kaemptierol 3-robinobioside, kaemptierol 3-rutinoside, querectin 3-rutinoside (rutin), isorhammetin 3-rutinoside, and trace amounts of querectin 3-rhammoside (querectin) have been detected using EPLC. The Elavoroid content of the leaves is 1.44–1.98%, bads 0.67%, flowers 1.14%, and the fruits 0.36%. 110

Other phenolics Chlorogenic acids: 5-caffeoyl-, cir-5-caffeoyl-, 5-p-commarcyl-, cir-5-p-commarcyl-, and 3,5-dicaffeoyl- (3 isomers) quinc acids detected in LC-MS/MS analysis of leaf curracts. (2) Phenolic and hydroxycimnamic acids caffeig, p-commarie, ferulic, gentisic, p-hydroxybentroic, protocareclasic, salicylic, sinapic, and smillic acids as mires constituents. (2) Phenolic glucosides (8,407–6,52% by photometric methods; 0.11–2.07% by HPLC) and virganreoside A (0.01–0.14% by photometric methods). (24,27) Tannins (catechin based) mentioned in early literature. (3)

Polysocchorides Pecliminary data indicates polysoccharide content of 5-8% in material of Rassian origin collected at different flowering stages. Monosaccharide composition: galacturantic acid (43-45%), galactose (31-17%), glucose (7-12%), anabinose (5-8%), rhamnose (4-7%), xylose (1-1.5%).

Soponins Major saponins of aerial parts (material sourced from 3.28-bisdesmonides of polygalacic acid including solidagosaponins NIV and NVIII (also referred to as virgaureasaponins B-E, although these names not widely adopted); all were also present in roots. <sup>1,1-10</sup> Note that virgaureasaponins 1-3 (3,28-bisdesmonides of polygalacic acid) reported in earlier studies are deacylated saponins isolated from alkaline hydrolysiates of aerial parts. Solidagosaponins BA<sub>D</sub>, obtained from hot water extracts of fresh whole plants (collected Shizuoka, Japan), comprise a 3-monodeamonide, 3,28-bisdesmonides, 3,16,28-tridesmonides, 16-monodeamonides, and 16,28-bisdesmonides of polygalacic acid, with many acylated examples. <sup>100-420</sup>

Other plant Polyacetylenes have been found in the roots. Fresh material collected in Norway (Trondbeim) contained 8 g/kg matricatia ester (methyl ester of 2Z,8Z-decadierie-4,6-diynoic acid), however the above-ground parts lacked these composeds. <sup>173</sup> Levels of polyacetylenes in Danish material (collected Marselisberg and Svejhack) showed seasonal variation with a maximum average amount of matricaria ester 0.56 g/kg fresh roots in December. Four other polyacetylenes were also identified. <sup>256</sup>

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Lei Shi

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#### Table of Contents Herbal Medicines 4th Edition Sample Monograph Pharmaceutical

- 1. Understanding the eBook Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - The Rise of Digital Reading Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - Personalized Recommendations
  - Herbal Medicines 4th Edition Sample Monograph Pharmaceutical User Reviews and Ratings
  - Herbal Medicines 4th Edition Sample Monograph Pharmaceutical and Bestseller Lists
- 5. Accessing Herbal Medicines 4th Edition Sample Monograph Pharmaceutical Free and Paid eBooks

- Herbal Medicines 4th Edition Sample Monograph Pharmaceutical Public Domain eBooks
- Herbal Medicines 4th Edition Sample Monograph Pharmaceutical eBook Subscription Services
- Herbal Medicines 4th Edition Sample Monograph Pharmaceutical Budget-Friendly Options
- 6. Navigating Herbal Medicines 4th Edition Sample Monograph Pharmaceutical eBook Formats
  - o ePub, PDF, MOBI, and More
  - Herbal Medicines 4th Edition Sample Monograph Pharmaceutical Compatibility with Devices
  - Herbal Medicines 4th Edition Sample Monograph Pharmaceutical Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - Highlighting and Note-Taking Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - Interactive Elements Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
- 8. Staying Engaged with Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
- 9. Balancing eBooks and Physical Books Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - Setting Reading Goals Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - Fact-Checking eBook Content of Herbal Medicines 4th Edition Sample Monograph Pharmaceutical
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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