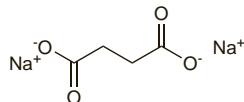


## Sodium Succinate

E363 (succinic acid); Succinato de sodio.

$C_4H_4Na_2O_4 \cdot 6H_2O = 270.1$ .

CAS — 150-90-3 (anhydrous sodium succinate); 6106-21-4 (sodium succinate hexahydrate).



## Profile

Sodium succinate is an ingredient of topical preparations tried for the treatment of cataract. It is also used as a food additive.

## Preparations

**Proprietary Preparations** (details are given in Part 3)

**Multi-ingredient:** Fr.: Cristopal†; Spain: Vitaphakol.

## Solidago

Aranyvessző (solidaginis herba); Echtes Goldrutenkraut (*S. virgaurea*); European Goldenrod (*S. virgaurea*); Golden Rod; Goldrutenkraut (*S. gigantea* or *S. canadensis*); Gullris, europeisk (solidaginis virgaureae herba); Gullris (solidaginis herba); Herba Virgaureae (*S. virgaurea*); Kultapiisku, euroop-palaainen (solidaginis virgaureae herba); Kultapiisku (solidaginis herba); Nat' zlatobýlová obecného (solidaginis virgaureae herba); Paprastujų rykštenų žolė (solidaginis virgaureae herba); Rykštenų žolė (solidaginis herba); Solidage; Solidage verge d'or (*S. virgaurea*); Solidaginis Herba (*S. gigantea* or *S. canadensis*); Solidaginis virgaureae herba (*S. virgaurea*); Solidago Virga Aurea (*S. virgaurea*); Verge d'or; Ziele nawłoci (*S. virgaurea*); Ziele nawłoci pospolitej (*S. virgaurea*); Zlatobýlová nat' (solidaginis herba).

NOTE. The name Aaron's Rod has been applied to a number of plants including *Solidago* spp., *Verbascum* spp., and *Sempervivum tectorum*.

**Pharmacopoeias.** In Eur. (see p.vii).

**Ph. Eur. 6.2** (Goldenrod; European; Solidaginis virgaureae herba). The whole or cut dried, flowering aerial parts of *Solidago virgaurea*. It contains not less than 0.5% and not more than 1.5% flavonoids, expressed as hyperoside ( $C_{21}H_{20}O_{12} = 464.4$ ) with reference to the dried drug.

**Ph. Eur. 6.2** (Goldenrod; Solidaginis herba). The whole or cut dried, flowering aerial parts of *Solidago gigantea* or *S. canadensis*. It contains not less than 2.5% of flavonoids, expressed as hyperoside ( $C_{21}H_{20}O_{12} = 464.4$ ) with reference to the dried drug.

## Profile

*Solidago virgaurea* (Asteraceae) has diuretic and anti-inflammatory activity. It is mainly used in inflammatory disorders of the bladder and kidneys and for the treatment of renal stones. It is also included in herbal preparations used for a variety of disorders.

*S. gigantea* (Early golden-rod) and *S. canadensis* were once considered to be adulterants of *S. virgaurea* but are now recognised as having similar activity.

**Homoeopathy.** Solidago has been used in homoeopathic medicines under the following names: Solidago virgaurea; Sol. vir.

## Preparations

**Proprietary Preparations** (details are given in Part 3)

**Cz.:** Zlatobýlova Nat; **Ger.:** Calcufel Aquat; Canephron S; Cytinol Long; Cystinol Solidago; Cysto Fink Mono†; Grani Fink Durchspülungen†; Kalkurel Goldrute; Nephrolith mono; Nephrolith mono†; Nieral; Solidagogen mono; Stromic; Urol; Uroplant†.

**Multi-ingredient:** **Austral:** Bioglan Cranbiotic Super; Euphrasia complex; Euphrasia Compound; Extralife Fluid-Care; Phytopolar; **Austria:** Heumann's Blasen- und Nierentee; Phytopolar; Solubritat; Ureum Neu; **Cz.:** Antiretrivrátky Caj; Epilobin; Phytopolar; Stoffwechseltee NH; Urcyston Planta; **Fr.:** Solution Stago Dilutee; **Ger.:** Aqualibra; BioCyst; Canephron novo†; Cefabasol; Cystinol N; Dr. Scheffler Bergischer Krauterthee Blasen- und Nierentee; Hamtee 400 N; Hamtee STADA; Hamtee-Steiner; Heumann Blasen- und Nierentee; Solubritat S†; Heumann Blasen- und Nieren-tee Solubritat uro; Hewenberrol-Tee; Hewenephron duo†; Inconturina†; nephro-logs; Nephro-Pasc†; Nephromed med†; Nephropur tri†; Nephroselect M; Nephro-Tee; Nierlon Blasen- und Nieren-Tee Vf†; Nierlon S†; Nieroxin NT†; Phytopolar; Presselin Nieren-Blasen K 3†; Prostamed; Renob Blasen- und Nieren Tee; Rivoval†; Solidagoren N; Uriodil phyto†; **Ital.:** Flavion; Granimania (Specie Composta)†; **Pol.:** Diuron; Fitover; Nefrobiosol; Nefrol; Nefrosop; NeoFitolizyna; Prostaprol; Reumacor; Urofort; Uromix; Uroprost; **Port.:** Prostamed†; **Rus.:** Prostanorm (Простанорм); **Spain:** Natusor Artilane†; Natusor Renal†; Renusor†; **Switz.:** Demutorin; Dragees pour les reins et la vessie; Dragees S pour les reins et la vessie; Gem; Nephrosolid; Phytomed Nephrot†; Phytomed Prosta†; Urinex.

## Sorrel

Acedera Común; Azeda-Brava; Garden Sorrel; Herba Rumicis Acetosae; Oseille; Sorrel Dock; Sour Dock; Vinagrera; Wiesen-sauerampfer.

NOTE. The name sour dock has also been used for yellow dock (p.2416).

The symbol † denotes a preparation no longer actively marketed

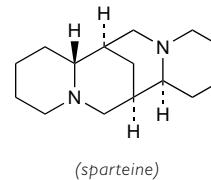
## Profile

Sorrel (*Rumex acetosa*, Polygonaceae) has been used for respiratory-tract disorders. It is also used as a culinary herb.

## Preparations

**Proprietary Preparations** (details are given in Part 3)

**Multi-ingredient:** **Austria:** Sinupret; Solvporet; **Cz.:** Sinupret; **Ger.:** Sinupret; **Hong Kong:** Sinupret; **Hung.:** Sinupret; **Indon.:** Sinupret; **Mex.:** Bisolinsin; **Philipp.:** Sinupret; **Pol.:** Sinupret; **Rus.:** Sinupret (Синупрет); **Singapore:** Sinupret; **Switz.:** Sinupret; **Thai.:** Sinupret.



(sparteine)

**Pharmacopoeias.** In Fr. and Viet.

## Profile

Sparteine sulfate is a salt of the dibasic alkaloid, sparteine, which is obtained from scorpiarium (p.2384). Sparteine sulfate has been reported to lessen the irritability and conductivity of cardiac muscle and has been used in the treatment of cardiac arrhythmias. Small doses stimulate and large doses paralyse the autonomic ganglia. Peripherally, it has a fairly strong curare-like action, arresting respiration by paralysing the phrenic endings.

The metabolic oxidation of sparteine exhibits genetic polymorphism and this property has been exploited in *in-vitro* screening tests to identify other drugs that may be subject to similar genetic variations in their metabolism.

**Precautions.** Sparteine present in a herbal slimming preparation might cause adverse effects in slow metabolisers if excessive doses were ingested; pregnant women might be particularly at risk.<sup>1</sup>

1. Galloway JH, et al. Potentially hazardous compound in a herbal slimming remedy. *Lancet* 1992; **340:** 179.

## Preparations

**Proprietary Preparations** (details are given in Part 3)

**Multi-ingredient:** **Braz.:** Belacodid†.

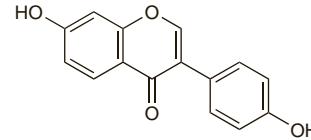
## Soya Isoflavones

### Daidzein

4',7-Dihydroxyisoflavone; 7-Hydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one.

$C_{15}H_{10}O_4 = 254.2$ .

CAS — 486-66-8.

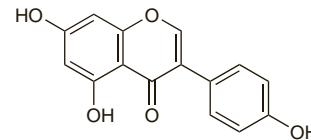


### Genistein

Cl-75610; Genisteol; Prunetol. 4',5,7-Trihydroxyisoflavone; 5,7-Dihydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one.

$C_{15}H_{10}O_5 = 270.2$ .

CAS — 446-72-0.



## Profile

Genistein and daidzein are soya isoflavones. Genistein, a tyrosine kinase inhibitor, is a phytoestrogen that has been tried for the relief of menopausal symptoms. It is also being investigated for its beneficial effect on blood lipids and for its proposed tumour-suppressing activity. Daidzein has been investigated similarly. Daidzein, mainly in the form of its glycoside daidzin, is a component of some herbal medicines traditionally used in the management of alcohol abuse.

**Effects on the endocrine system.** For a suggestion that isoflavones in soya-based formulas may exert biological effects, see p.1966.

**Hyperlipidaemias.** For a discussion of possible beneficial effects of soya isoflavones on blood lipids, see p.1967.

**Menopausal disorders.** Soya isoflavones have been investigated for their oestrogen-modulating effects, see p.1967.

## Preparations

**Proprietary Preparations** (details are given in Part 3)

**Arg.:** Sojadol; Sojar Men; Tamvili Isoflavonas; **Braz.:** Buona; Flavon; Menop; Menop 50; Soyfemme; **Fr.:** Flavonex; Inclim; **Hong Kong:** Phyto Soya; Phyto-Care; **Indon.:** Calvon; Promensil; **Ital.:** Soymen Gel; **Mex.:** Pausicaps†; **Port.:** Isogyn†; **S.Afr.:** Phytopause; **Singapore:** Isovon; **Venez.:** Climasoy.

**Multi-ingredient:** **Arg.:** Isflavon; Sigman Free; Snella; Sojar Plus-Calcio; Sojaesterol; **Canad.:** Natural HRT; **Fr.:** Anapacs; Effia; Estrofort; Gynalpa Plus; **Hong Kong:** Caltrate + Soy; Palmetto Plus†; Phyto-Ease; Phytoestriol†; **Indon.:** Cal-95; Calboson; Femosa; Hi-Bone; Isolem; **Ital.:** Apogeo; Climal Gel; Evestrel; Fitogenome; Rinnova; **Port.:** Afron†; Femmet†; **S.Afr.:** Phytopause BSF; **Singapore:** Caltrate + Soy; Palmetto Plus; Phytoestrin; **UK:** Aria; SoyPlus; **USA:** Better Cholesterol; Fosteum; **Venez.:** Calcion D Soya.

## Sparteine Sulfate (USAN, r/INNM)

Spart. Sulph.; Spartéine, Sulfate de; Sparteine Sulphate; (−)-Sparteine Sulphate; l-Sparteine Sulphate; Spartéini Sulfas; Sparteinum Sulficum; Sulfato de esparteína. Dodecahydro-7,14-methano-2H,6H-dipyrido[1,2-a:1',2'-e][1,5]diazocine sulphate pentahydrate.

Спартеина Сульфат

$C_{15}H_{22}N_2 \cdot H_2SO_4 \cdot 5H_2O = 422.5$ .

CAS — 90-39-1 (sparteine); 299-39-8 (anhydrous sparteine sulfate); 6160-12-9 (sparteine sulfate pentahydrate).

ATC — C01BA04.

ATC Vet — Q01BA04.

## Spike Lavender

Lavande aspic.

## Profile

Spike lavender, *Lavandula latifolia* (Lamiaceae), is used similarly to lavender (p.2331) as a sedative and for biliary disorders. It is the source of spike lavender oil (below).