

## Presence of Compounds in Sarsaparilla (*Smilax officinalis*)

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Alcohol, cetyl		Root	Not Stated	Not Stated	ZZ1095
Astilbin	Flavone	Root Rhizome Rhizome	China China China	Not Stated Not Stated Not Stated	BN1023 BN1025 BN1026
Astilbin, iso	Flavone	Not Stated Rhizome	China China	Not Stated Not Stated	BN1026 BN1027
Calcium	Inorganic	Root	Not Stated	2,980 ppm	ZZ1095
Chromium	Inorganic	Root	Not Stated	17 ppm	ZZ1095
Cobalt	Inorganic	Root	Not Stated	152 ppm	ZZ1095
Diosgenin	Steroid	Rhizome Not Stated	China Not Stated	Not Stated Not Stated	BN1030 BN1007
Engeletin	Flavone	Rhizome	China	Not Stated	BN1025
Engetitin, iso	Flavone	Rhizome	China	Not Stated	BN1027
Essential Oil		Root	Not Stated	300 ppm	ZZ1095
Eucryphin		Rhizome	Japan	Not Stated	BN1033
Eurryphin	Flavone	Rhizome	China	Not Stated	BN1025
Ferulic acid		Rhizome	Vietnam	Not Stated	BN1028
Glucose		Root	Not Stated	Not Stated	ZZ1095
Iron	Inorganic	Root	Not Stated	905 ppm	ZZ1095
Isoflavone, 7,6'-dihydroxy 3'-methoxy	Flavone	Root	China	Not Stated	BN1023
Kaempferol		Leaf	Vietnam	Not Stated	BN1028
Magnesium	Inorganic	Root	Not Stated	1,670 ppm	ZZ1095
Manganese	Inorganic	Root	Not Stated	57 ppm	ZZ1095

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Parigenin, acetyl		Root	Honduras	Not Stated	BN1015
Parigenin		Root	Not Stated	Not Stated	ZZ1095
Parillin		Root	Not Stated	Not Stated	ZZ1095
Phosphorus	Inorganic	Root	Not Stated	1,770 ppm	ZZ1095
Pollinastanol	Steroid	Root	Not Stated	Not Stated	ZZ1095
Potassium	Inorganic	Root	Not Stated	9,530 ppm	ZZ1095
Quercetin	Flavonoid	Leaf	Vietnam	Not Stated	BN1028
Quercetin, dihydro	Flavone	Rhizome	China	Not Stated	BN1025
Resin		Root	Not Stated	25,000 ppm	ZZ1095
Resveratrol		Rhizome	China	Not Stated	BN1025
Rhamnose		Root	Honduras	Not Stated	BN1015
Saponin		Root	Not Stated	5,000-20,000 ppm	ZZ1095
Sarasaponin	Saponin	Root	Not Stated	Not Stated	ZZ1095
Sarsaparilloside	Saponin	Root	Not Stated	Not Stated	ZZ1095
Sarsaponin	Saponin	Root	Not Stated	Not Stated	ZZ1095
Sarsasapogenin	Sapogenin	Root	Not Stated	Not Stated	ZZ1095
Sarsasapogenin-3-o-beta-d-glucopyranosyl(1-4)-[alpha-l-arabinopyranosyl(1-6)]-beta-d-glucopyranoside	Sapogenin	Rhizome	Brazil	00.008%	H18375
Selenium	Inorganic	Root	Not Stated	Not Stated	ZZ1095
Shikimic acid		Rhizome	Vietnam	Not Stated	BN1028
Shikimic acid, O-(3)-caffeoyl		Rhizome	Vietnam	Not Stated	BN1028

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Shikimic acid, 5-O-caffeoyl		Rhizome	China	Not Stated	ZZ1025
Silicon	Inorganic	Root	Not Stated	88 ppm	ZZ1095
Sitosterol, beta	Sterol	Root	Not Stated	Not Stated	ZZ1095
Sitosterol, d-glucoside	Sterol	Root	Not Stated	Not Stated	ZZ1095
Sitosterol, epsilon	Sterol	Root	Not Stated	Not Stated	ZZ1095
Smilagenin	Sapogenin	Root	Not Stated	Not Stated	ZZ1095
Smilasaponin	Saponin	Root	Not Stated	Not Stated	ZZ1095
Smilax saponin A	Saponin	Rhizome	China	Not Stated	BN1030
Smilax saponin B	Saponin	Rhizome	China	Not Stated	BN1030
Smilax saponin C	Saponin	Rhizome	China	Not Stated	BN1030
Smiglaside A	Phenylpropanoid glycoside	Rhizome	China	Not Stated	BN1024
Smiglaside B	Phenylpropanoid glycoside	Rhizome	China	Not Stated	BN1024
Smiglaside C	Phenylpropanoid glycoside	Rhizome	China	Not Stated	BN1024
Smiglaside D	Phenylpropanoid glycoside	Rhizome	China	Not Stated	BN1024
Smiglaside E	Phenylpropanoid glycoside	Rhizome	China	Not Stated	BN1024
Smitilbin	Flavone	Rhizome	China	Not Stated	BN1025
Spirotstan-6-beta-ol,25(s):3-o-beta-d-glycopyranosyl(1-4)-o-[alpha-l-arabinopyranosyl(1-6)-beta-d-glucopyranoside	Sapogenin	Rhizome	Brazil	00.0052%	H18375
Starch		Root	Not Stated	520,000 ppm	ZZ1095
Stigmasterol		Root	Not Stated	Not Stated	ZZ1095
Taxifolin		Root	China	Not Stated	BN1023

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Tigogenin, neo: 3-o-beta-d-glucopyranosyl(1-4)-o-[alpha-l-arabinopyranosyl(1-6)-beta-d-glucopyranoside]	Sapogenin	Rhizome	Brazil	00.0076%	H18375
Titogenin		Not Stated	Not Stated	Not Stated	BN1007
Vitamin C	Inorganic	Bark	Mexico	Not Stated	BN1029
Zinc	Inorganic	Root	Not Stated	26 ppm	ZZ1095

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