

Table S1. *Solanum* steroidal glycoalkaloids (SGA) isolated till now.

SGA numbers	SGA names	Occurrence	References
1	Solanidane	<i>S. tuberosum</i>	36
2	Spirosolane	<i>S. lyratum</i> & <i>S. nigrum</i>	37
3	Solanidine	<i>S. tuberosum</i>	38
4	Demissidine	<i>S. tuberosum</i>	39
5	Tomatidenol	<i>Solanum</i> spp.	10
6	Tomatidine	<i>Solanum</i> spp.	39
7	Solasodine	<i>S. lycopersicum</i> , <i>S. nigrum</i> , & <i>S. dulcamara</i>	40
8	Soladulcidine	<i>Solanum</i> spp.	41
9	α -Chaconine	<i>S. chacoense</i>	42
10	α -Solanine	<i>S. chacoense</i>	47
11	Leptine I	<i>S. chacoense</i>	43
12	Leptinine I	Colorado potato	39
13	Leptine II	<i>S. chacoense</i>	43
14	Leptinine II	Colorado potato	39
15	Dehydrodemissine	<i>S. commersonii</i>	44
16	Dehydrocommersonine	<i>S. chacoense</i>	42
17	(3 β)-14-hydroxysolanid-5-en-3-yl 4-O-(6-deoxy- α -L-mannopyranosyl)- β -D-glucopyranoside	<i>S. tuberosum</i>	45
18	(3 β ,7 β)-7-hydroxysolanid-5-en-3-yl 6-deoxy- α -L-mannopyranosyl-(1 $\rightarrow$ 2)-[6-deoxy- α -L-mannopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside	<i>S. tuberosum</i>	45
19	(3 β)-7-oxosolanid-5-en-3-yl 6-deoxy- α -L-mannopyranosyl-(1 $\rightarrow$ 2)-[6-deoxy- α -L-mannopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside	<i>S. tuberosum</i>	45

20	(3β)-7-oxosolanid-5-en-3-yl 6-deoxy-α-L-mannopyranosyl-(1→2)-[β-D-glucopyranosyl-(1→3)]-β-D-galactopyranoside	<i>S. tuberosum</i>	45
21	Demissine	<i>S. chacoense</i> & <i>S. commersonii</i>	46
22	Commersonine	<i>S. demissum</i>	47
23	(3β,5α,6β)-5,6-dihydroxysolanidan-3-yl 6-deoxy-α-L-mannopyranosyl-(1→2)-[6-deoxy-α-L-mannopyranosyl-(1→4)]-β-D-glucopyranoside	<i>S. tuberosum</i>	45
24	Dihydro-β1-Chaconine	potatoes & tomatoes	48
25	Dihydrosolanine	potatoes & tomatoes	48
26	α-Tomatine	wild tomato fruits	12
27	Sisunine	<i>S. ajanhuiri</i>	49
28	β-Tomatine	<i>S. nigrum</i>	40
29	γ-Tomatine	<i>S. tuberosum</i>	40
30	Δ-Tomatine	<i>S. lycopersicum</i>	40
31	Polyanine/Polyanin	<i>S. polyadenium</i>	50
32	β ₂ -Tomatine	<i>S. lycopersicum</i>	36
33	Dihydro-β-Solamarine	<i>S. dulcamara</i>	51
34	Tomatidine, 3-O-β-D-glucopyranoside	<i>S. arboreum</i>	52
35	Tomatidine, 3-O-β-[D-xylopyranosyl-(1→6)]-β-D-glucopyranoside	<i>S. arboreum</i>	52
36	β-Solamarine	<i>S. nigrum</i>	40
37	α-Solamarine	<i>S. nigrum</i>	40
38	Dehydrotomatine	tomato	40
39	γ-Solamarine	<i>S. dulcamara</i>	43
40	α-Solamargine	<i>S. macrocarpon</i> & <i>S. aethiopicum</i>	58
41	α-Solasonine	<i>S. macrocarpon</i> & <i>S. aethiopicum</i>	58
42	Khasianine	<i>S. nigrum</i>	59
43	γ-Solamargine	<i>S. nigrum</i>	60

44	β_1 -Solamargine	<i>S. robustum</i>	61
45	γ -Solasonine	<i>S. nigrum</i>	40
46	β_2 -Solasonine	<i>S. nigrum</i>	62
47	(22 <i>R</i> ,25 <i>R</i>)-spirosol-5-en-3 β -yl <i>O</i> - <i>R</i> -L-rhamnopyranosyl-(1 $\rightarrow$ 2)-[6- <i>O</i> -acetyl- β -D-glucopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside	<i>Lilium longiflorum</i>	63
48		<i>Lilium longiflorum</i>	63
49	β_1 -Solasonine	<i>S. nigrum</i>	60
50	12-Hydroxysolasonine	<i>S. uporo</i>	64
51	Isoanguivine	<i>S. uporo</i>	64
52	Sycophantine	<i>S. coccineum</i>	65
53	Solaverine I	<i>S. toxicarium</i> & <i>S. verbascifolium</i>	66
54	(3 β ,22 α ,25 <i>R</i>)-Spirosol-5-en-3-yl 6-deoxy- α -L-mannopyranoside	<i>S. unguiculatum</i>	67
55	Robeneoside B	<i>S. lycocarpum</i>	69
56	Solanandaine (27-Hydroxysolamargine)	<i>S. asperum</i>	69
57	3- <i>O</i> - β -lycotetraoside of solasodine	<i>S. japonense</i>	70
58	Solaverine II	<i>S. toxicarium</i> & <i>S. verbascifolium</i>	66
59	Anguivine	<i>S. anguivi</i>	71
60	Solashabanine	<i>S. suaveolens</i>	72
61	12-Hydroxysolamargine (Lobofrutoside)	<i>S. lycocarpum</i>	73
62	Robeneoside A	<i>S. lycocarpum</i>	67
63	γ_1 -Solamarine	<i>S. dulcamara</i>	54
64	δ -Solamarine	<i>S. dulcamara</i>	54
65	Spirosolane, β -D-glucopyranoside deriv.	<i>S. nigrum</i>	74
66	Robustine	<i>S. robustum</i>	61
67	<i>N</i> -Hydroxyrobustine	<i>S. robustum</i>	61
68	25-Acetoxyrobustine	<i>S. robustum</i>	61

69	22,25-Diepisycophantine	<i>S. sycophanta</i>	55
70	Solanelagnin	<i>S. elaeagnifolium</i>	75
71	Arudoine	<i>S. arundo</i>	76
72	Solaverine III	<i>S. toxicarium</i> & <i>S. verbascifolium</i>	66
73	Incanumine	<i>S. incanum</i>	77
74	Ravifoline	<i>S. platanifolium</i>	78
75	<i>N</i> -hydroxysolamargine	<i>S. robustum</i>	79
76	21-Hydroxysycophantine	<i>S. sycophanta</i>	55
77	3- <i>O</i> - α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)- α -L-rham-nopyranosyl-(1 $\rightarrow$ 4)- β -D-galactopyranosyl solasodine	<i>S. unguiculatum</i>	67
78	(23 <i>S</i>)-23-Hydroxyanguivine	<i>S. uporo</i>	66
79	(23 <i>S</i>)-23-Hydroxyisoanguivine	<i>S. uporo</i>	64
80	Solasuaveoline	<i>S. suaveolens</i>	72
81	Dihydrosolasuaveoline	<i>S. suaveolens</i>	72
82	Solaculine A	<i>S. aculeastrum</i>	56
83	(25 <i>R</i>)-3 β -[<i>O</i> - α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)-[<i>O</i> - β -D-glucopyranosyl-(1 $\rightarrow$ 4)- <i>O</i> - α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranosyl]-22 α -spirosol-5-ene	<i>S. aculeastrum</i>	80
84	Putuline	<i>S. paludosum</i>	81
85	20-epi-Solamargine	<i>S. crinitum</i>	82
86	(22 <i>S</i> , 25 <i>S</i>)-spirosol-5-en-3 β -ylO- β -D-glucopyranosyl-(1 $\rightarrow$ 4)-O-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)]- β -D-glucopyranoside	<i>Fritillaria meleagris</i>	57
87	Solanigroside P	<i>S. nigrum</i>	60
88	(3 β ,22 α ,25 <i>R</i>)-spiroslane-5-alkenyl-3- <i>O</i> - β -D-glucopyranosyl-(1 $\rightarrow$ 2)- <i>O</i> - β -D-glucopyranosyl-(1 $\rightarrow$ 4)- β -D-galactopyranoside	<i>S. lyratum</i>	53
89	7 α -Hydroxy-khasianine	<i>S. nigrum</i>	62
90	7 α -Hydroxy-solamargine	<i>S. nigrum</i>	62
91	7 α -Hydroxy-solasonine	<i>S. nigrum</i>	62

92	Solalyratine A	<i>S. lyratum</i>	85
93	Solalyratine B	<i>S. lyratum</i>	85
94	Neorickioside B	<i>S. neorickii</i>	12
95	22-Imido-3-[4'-(6"-deoxy- α -L-mannoside)- β -D-glucoside]-5-dehydro spirostane	<i>S. xanthocarpum</i>	86
96	Soladulcine A	<i>S. dulcamara</i>	87
97	β -Soladulcine	<i>S. dulcamara</i>	88
98	Soladulcine B	<i>S. dulcamara</i>	87
99	(3 β ,5 α ,22 α ,25 <i>R</i>)-spiroslane-3-O- β -D-glucopyranosyl-(1 $\rightarrow$ 2)-O- β -D-glucopyranosyl-(1 $\rightarrow$ 4)- β -D-galactopyranoside	<i>S. lyratum</i>	53
100	Esculeoside A	<i>S. lycocarpum</i> var. <i>cerasiforme</i> (Cherry tomato)	89
101	Lycotetraose G	<i>S. lycocarpum</i> var. <i>cerasiforme</i> (Cherry tomato)	89
102	Esculeoside B	<i>S. lycocarpum</i> var. <i>cerasiforme</i> (Cherry tomato)	89
103	Esculeoside C	<i>S. lycocarpum</i> var. <i>cerasiforme</i> (Cherry tomato)	89
104	Esculeoside D	<i>S. lycocarpum</i> var. <i>cerasiforme</i> (Cherry tomato)	89
105	Solanine A	<i>S. nigrum</i>	62
106	(22 <i>R</i> , 25 <i>R</i>)-16 β -H-22 α - <i>N</i> -spiroisol-3 β -ol-5-ene 3-O- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside	<i>S. surattense</i>	83
107	(<i>E</i>)- <i>N</i> -[80(4-hydroxyphenyl)ethyl]-22 α ,23 α -epoxy-solanida-1,4,9-trien-3-imine	<i>S. campaniform</i>	90
108	(25 <i>R</i>)-22 α - <i>N</i> -4-norspirosol-5(6)-en-3 β -ol-6-al-3-O- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside.	<i>S. nigrum</i>	84
109	(25 <i>R</i>)-22 α - <i>N</i> -spiroisol-5(6)-en-3 β -ol-7-oxo-3-O- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside	<i>S. nigrum</i>	84
110	(25 <i>R</i>)-22 α - <i>N</i> -spiroisol-4(5)-en-3 β -ol-6-oxo-3-O- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside	<i>S. nigrum</i>	84

