

The SGA metabolites indicated in the table were analysed in upper and lower leaves of potato shoots (cv. King Edward) that had been fed 200 µg D-labelled sterols solubilised in Tween-80 or in methyl-β-cyclodextrin (MBD) for three or five weeks, and compared to water control samples (blanks). Each data point is based on one analysis of an extract made from two or three pooled shoots from independent plants. Levels of D-labelled SGA are corrected for the natural abundance of ¹³C where needed. ND, not detected.

			3 weeks				5 weeks			
			(mg/kg FW)				(mg/kg FW)			
Solubiliser	Sterol fed	Shoot part	α-solanine	α-chaconine	α-solanine	α-chaconine	α-solanine	α-chaconine	α-solanine	α-chaconine
			endogenous	endogenous	D ₅ -D ₇	D ₅ -D ₇	endogenous	endogenous	D ₅ -D ₇	D ₅ -D ₇
Tween-80	Control (Blank)	upper leaves	1088	2024	ND	ND	901	2343	ND	ND
		lower leaves	425	636	ND	ND	477	779	ND	ND
	D ₆ -cholesterol	upper leaves	1109	2372	ND	0,02	1227	2952	0,01	0,03
		lower leaves	495	842	ND	0,02	701	1277	0,02	0,22
	D ₇ -cholesterol	upper leaves	1250	2618	ND	ND	1023	2638	ND	ND
		lower leaves	388	656	ND	ND	1143	1873	ND	0,06
	D ₇ -sitosterol	upper leaves	838	1898	ND	ND	1440	3290	ND	ND
		lower leaves	489	863	ND	ND	780	1382	ND	ND
MBD	Control (Blank)	upper leaves	1088	2024	ND	ND	901	2343	ND	ND
		lower leaves	425	636	ND	ND	477	779	ND	ND
	D ₆ -cholesterol	upper leaves	952	1848	0,69	4,68	1018	2385	0,28	2,85
		lower leaves	518	825	0,04	0,32	832	1407	0,31	2,06
	D ₇ -cholesterol	upper leaves	903	1959	0,34	2,26	946	2437	0,11	0,51
		lower leaves	379	729	0,08	0,51	1193	1948	0,32	1,71
	D ₇ -sitosterol	upper leaves	1122	1743	ND	ND	1373	3153	ND	ND
		lower leaves	448	733	ND	ND	1279	2345	ND	ND