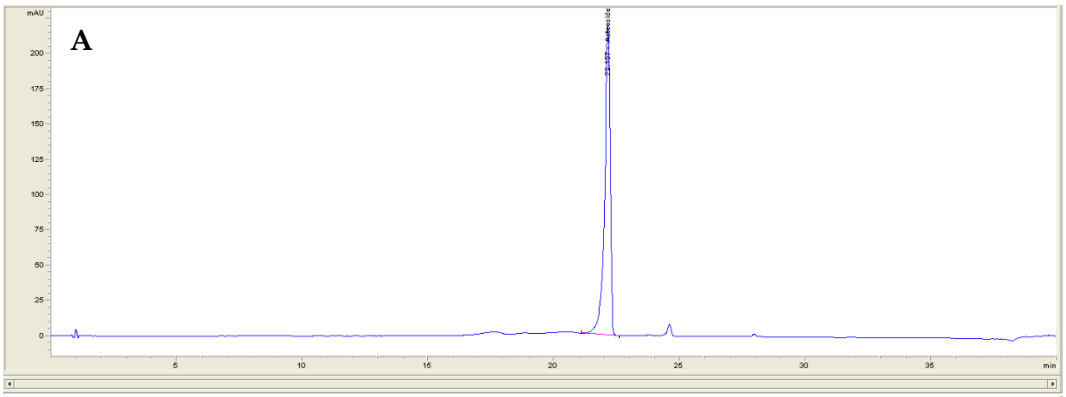
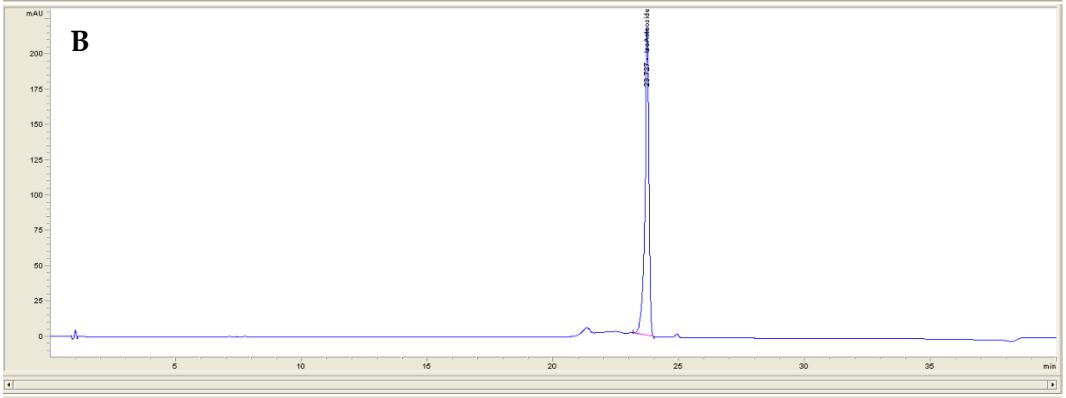
Table S1. F-values, partial eta squared (η^2) and *p*–values derived from two-way ANOVA (cytokinin type × concentration) for studied growth parameters and metabolite levels in *C. colebrookianum*.

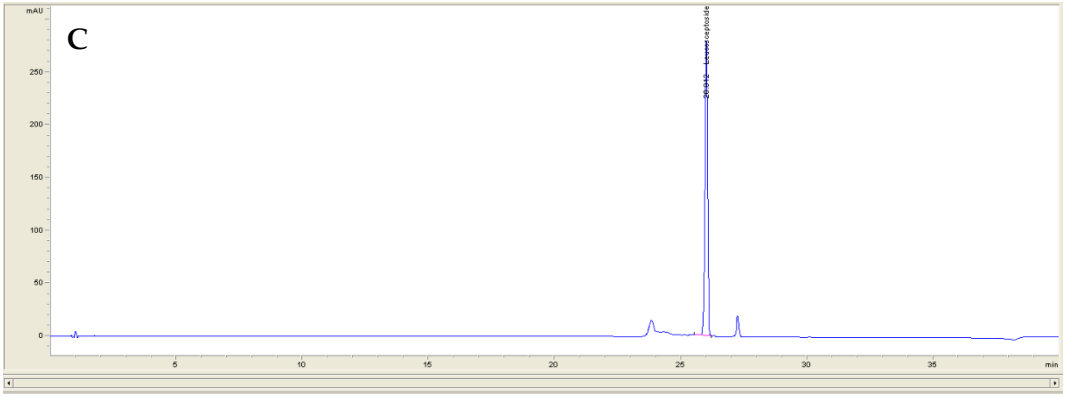
C. colebrookianum		Cytokinin type	Cytokinin concentration	Cytokinin type × concentration
proliferation rate	F	7.18	15.16	1.61
	p	<0.001	<0.001	0.172
	partial η^2	0.047	0.094	0.022
dry weight	F	3.44	13.24	1.40
	p	0.034	<0.001	0.234
	partial η^2	0.030	0.107	0.025
acteoside	F	835.69	106.85	139.88
	p	<0.001	<0.001	<0.001
	partial η^2	0.959	0.748	0.886
isoacteoside	F	695.21	15.72	51.97
	p	<0.001	<0.001	<0.001
	partial η^2	0.951	0.304	0.743
acteoside isomer	F	3.86	23.575	18.62
	p	0.026	<0.001	<0.001
	partial η^2	0.097	0.396	0.508
leucosceptoside A	F	577.39	186.5	23.36
	p	<0.001	<0.001	<0.001
	partial η^2	0.941	0.838	0.565
martynoside	F	25.35	607.15	119.04
	p	<0.001	<0.001	<0.001
	partial η^2	0.413	0.944	0.869
caffeic acid hexoside	F	203.80	41.95	80.05
	p	<0.001	<0.001	<0.001
	partial η^2	0.850	0.538	0.816
apigenin rhamnosyl-hexoside	F	157.01	45.97	29.86
	p	<0.001	<0.001	<0.001
	partial η^2	0.813	0.561	0.624
total polyphenols	F	833.03	139.34	118.32
	p	<0.001	<0.001	<0.001
	partial η^2	0.959	0.795	0.868

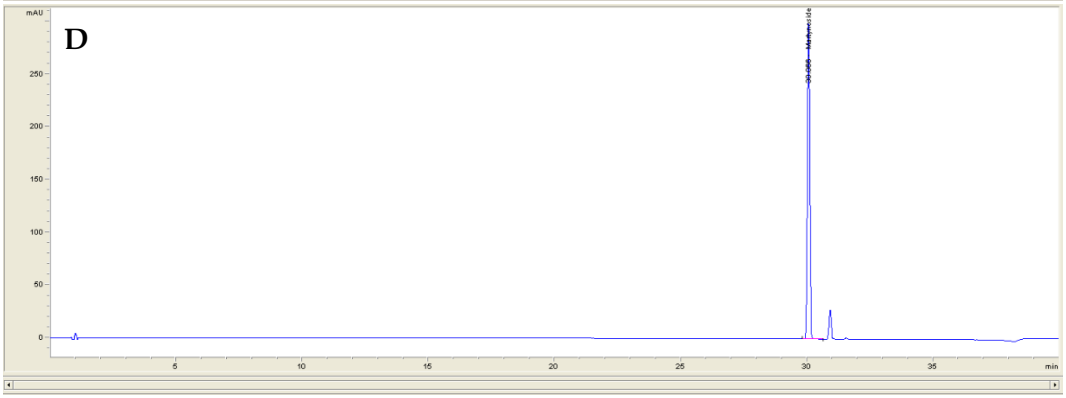
Table S2. F-values, partial eta squared (η^2) and *p*–values derived from two-way ANOVA (cytokinin type × concentration) for studied growth parameters and metabolite levels in *C. trichotomum*.

C. trichotomum		Cytokinin type	Cytokinin concentration	Cytokinin type × concentration
proliferation rate	F	5.62	3.47	4.19
	p	0.004	0.032	0.003
	partial η^2	0.034	0.022	0.051
DW	F	33.54	23.05	3.91
	p	<0.001	<0.001	0.004
	partial η^2	0.188	0.137	0.051
acteoside	F	356.0	30.27	12.53
	p	<0.001	<0.001	<0.001
	partial η^2	0.908	0.457	0.411
β-hydroxyacteoside	F	2604.57	839.99	89.23
	p	<0.001	<0.001	<0.001
	partial η^2	0.986	0.959	0.832
hydroxyphenyletanoid	F	270.27	127.80	15.97
	p	<0.001	<0.001	<0.001
	partial η^2	0.882	0.780	0.470
campneoside I	F	11.73	136.42	37.94
	p	<0.001	<0.001	<0.001
	partial η^2	0.246	0.791	0.678
isoacteoside	F	472.64	15.88	36.81
	p	<0.001	<0.001	<0.001
	partial η^2	0.929	0.306	0.672
acteoside isomer	F	2665.47	566.49	90.90
	p	<0.001	<0.001	<0.001
	partial η^2	0.987	0.940	0.835
leucosceptoside A	F	544.25	59.28	54.41
	p	<0.001	<0.001	<0.001
	partial η^2	0.938	0.622	0.751
luteolin hexoside derivative	F	25.99	130.35	79.10
	p	<0.001	<0.001	<0.001
	partial η^2	0.419	0.74	0.815
apigenin	F	18.98	82.97	75.51
	p	<0.001	<0.001	<0.001
	partial η^2	0.345	0.697	0.808
total polyphenols	F	497.57	40.97	11.07
	p	<0.001	<0.001	<0.001
	partial η^2	0.933	0.532	0.381


A
mAU
min


B
mAU
min


C
mAU
min


D
mAU
min

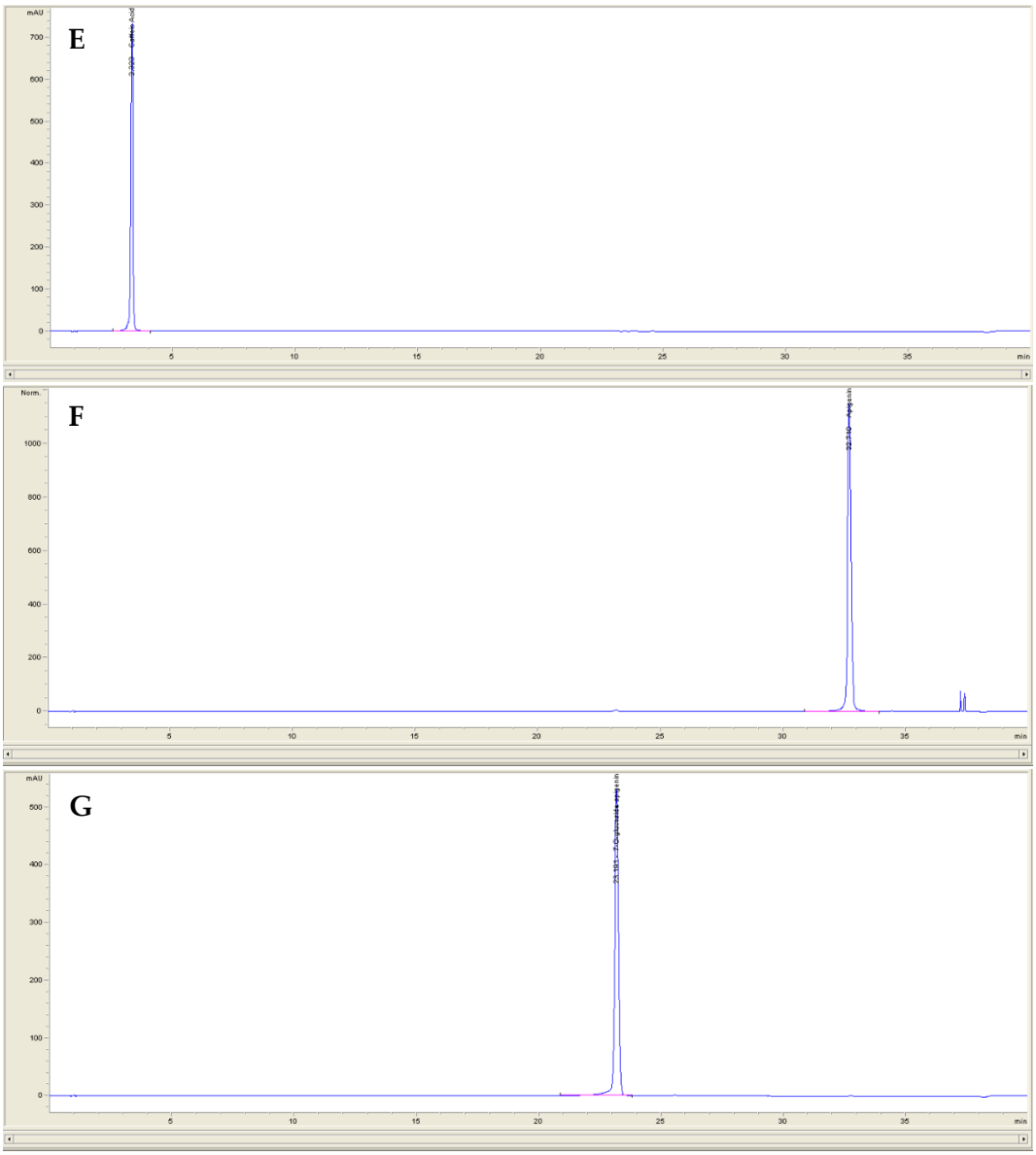


Figure S1. Representative chromatograms of standards used for calibration curve preparation: acteoside (**A**), isoacteoside (**B**), leucosceptoside A (**C**), martynoside (**D**), caffeic acid (**E**), apigenin (**F**), and apigenin glucoside (**G**).

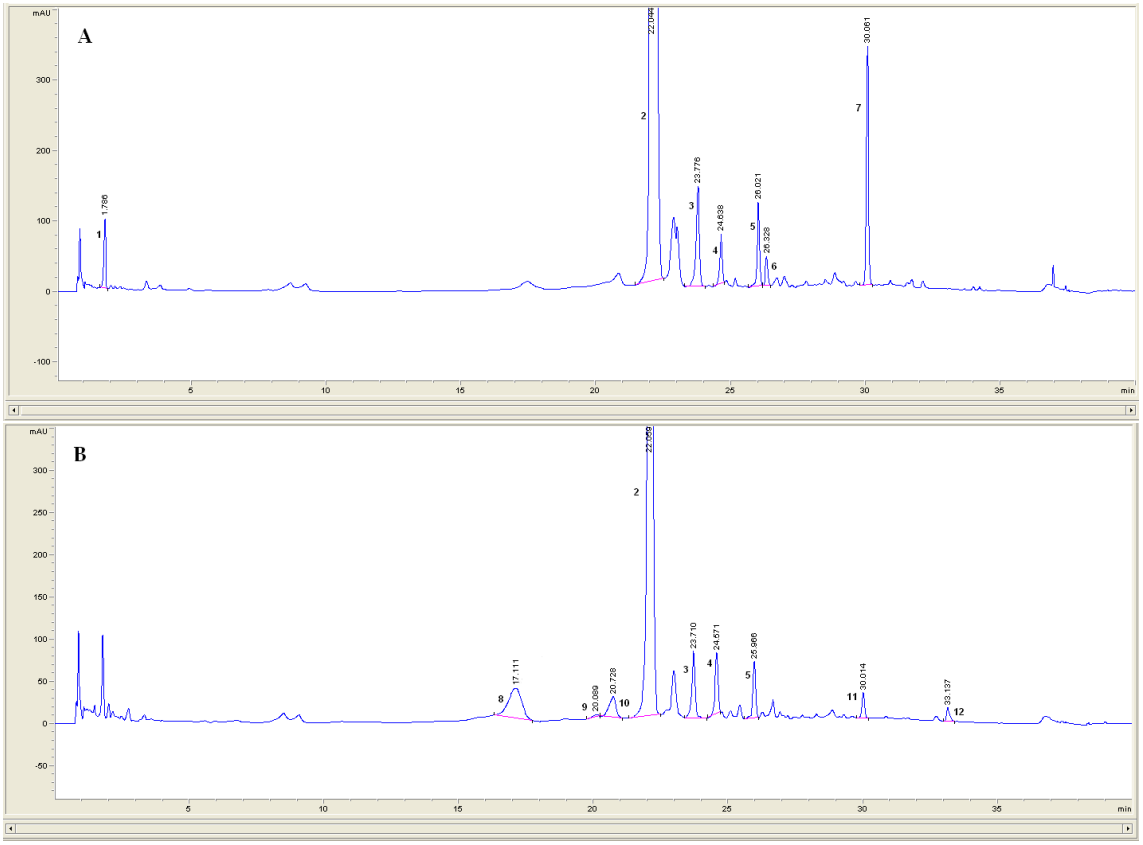


Figure S2. Representative chromatogram of hydromethanolic extract of *C. colebrookianum* shoots (**A**) and *C. trichotomum* shoots (**B**).

1 - caffeic acid hexoside, 2 - acteoside, 3 – isoacteoside, 4 – acteoside isomer, 5 – leucosceptoside, 6 - apigenin rhamnosyl-hexoside, 7 – martynoside, 8 – *β*-hydroxyacteoside, 9 - hydroxylated phenylethanoid derivative A, 10 – campneoside I, 11 – luteolin hexoside derivative, 12 – apigenin.