

SUPPLEMENTARY MATERIAL

Table S1. HPLC and HPLC-MS operating conditions for sugars, organic acids and phenolic compounds.

HPLC conditions[7,40]				
	Organic acids	Sugars	Ascorbic acid	Phenolics
Recorded spectra	210 nm	/	245 nm	200-600 nm
Detector	UV detector	Refractive index detector (RI)	UV detector	Diode array detector (DAD)
Column	Rezex ROA H+ (8%); Phenomenex	Rezex RXM-monosaccharide CA (+2%); Phenomenex	Rezex ROA H+ (8%); Phenomenex	Gemini C18 (150x4,6mm;3µm); Phenomenex
Column temperature	65°C	65°C	20°C	25°C
Injection	20 µl	20 µl	20 µl	20 µl
Flow rate	0.6 ml/min	0.6 ml/min	0.6 ml/min	0.6 ml/min
Total run time	30 min	30 min	30 min	50 min
Mobile phase	4 mM sulfuric acid Isocratic elution	Bidistilled water Isocratic elution	4 mM sulfuric acid Isocratic elution	A: 0.1%formic acid + 3% acetonitrile + 97% biH ₂ O; B: 0.1%formic acid + 3% biH ₂ O + 97% acetonitrile
	MS conditions[7]	Gradient elution of mobile phases for phenolic compounds [7]		
Full scan (m/z)	115-1500	Time (min)	A (%)	B (%)
Injection volume	10 µl	0	95	5
Flow rate	0.6 ml/min	15	80	20
Capillary temperature	320°C	20	70	30
Sheat-Aux-Sweep Gas	50 – 20 – 0 arb	25	70	30
Spray Voltage (kV)	3.5	30	10	90
Capillary voltage (V)	10	35	0	100
		45	95	5
		50	95	5

Table S2: Content of Identified Hydroxycinnamic Acid Derivatives (mg/kg FW) in Salicylic Acid (SA), Methyl Salicylic Acid (MeSA) and Acetyl Salicylic Acid (ASA) Treated Strawberries at Different Time Points (T0, 24h, 72h, 7 days and 10 days after treatments with salicylates).

	Treatment	Caffeic acid der	Cinamoyl hex	Chlorogenic acid	<i>p</i> -coumaric acid hex	Total hydroxycinnamic acid derivatives
T0	C	10.53 ± 0.25 a	152.49 ± 6.99 a	9.93 ± 0.24 a	1.45 ± 0.12 a	174.39 ± 6.72 a
	SA	10.22 ± 0.24 a	163.50 ± 12.09 a	9.59 ± 0.15 a	1.50 ± 0.09 a	184.80 ± 12.15 a
	MeSA	10.60 ± 0.28 a	164.13 ± 8.37 a	9.43 ± 0.78 a	1.38 ± 0.15 a	185.55 ± 8.88 a
	ASA	10.03 ± 0.30 a	159.00 ± 3.81 a	10.06 ± 0.73 a	1.62 ± 0.18 a	180.72 ± 4.26 a
24 h	C	10.18 ± 0.33 a	163.38 ± 1.77 a	9.75 ± 0.834 a	1.29 ± 0.09 a	184.59 ± 1.74 a
	SA	12.48 ± 0.18 b	188.58 ± 1.41 b	13.26 ± 0.54 b	1.41 ± 0.09 a	215.76 ± 1.77 c
	MeSA	13.02 ± 0.33 b	170.19 ± 1.95 a	13.53 ± 0.66 b	1.26 ± 0.09 a	197.97 ± 2.55 b
	ASA	9.99 ± 0.27 a	165.99 ± 2.01 a	10.53 ± 0.96 ab	1.14 ± 0.09 a	185.22 ± 1.62 a
72 h	C	12.42 ± 1.02 a	193.68 ± 7.20 a	12.99 ± 0.45 a	1.44 ± 0.09 a	220.53 ± 6.51 a
	SA	12.96 ± 0.45 a	223.11 ± 7.92 a	15.36 ± 0.27 a	1.74 ± 0.06 a	253.17 ± 7.92 b
	MeSA	13.41 ± 0.30 a	221.10 ± 5.61 a	14.37 ± 0.90 a	1.74 ± 0.09 a	250.65 ± 5.73 ab
	ASA	12.09 ± 0.42 a	209.70 ± 9.24 a	13.14 ± 0.90 a	1.56 ± 0.12 a	236.49 ± 9.78 ab
7 days	C	17.79 ± 1.32 ab	217.50 ± 14.40 a	18.09 ± 0.48 a	1.80 ± 0.15 a	255.18 ± 13.92 a
	SA	20.61 ± 0.93 b	259.53 ± 6.75 b	19.56 ± 1.44 a	2.04 ± 0.15 a	301.71 ± 5.73 b
	MeSA	15.27 ± 0.30 a	194.07 ± 7.59 a	18.03 ± 0.24 a	1.80 ± 0.09 a	229.17 ± 7.56 a
	ASA	16.83 ± 0.69 a	205.14 ± 7.83 a	18.60 ± 0.36 a	1.98 ± 0.18 a	242.55 ± 7.35 a
10 days	C	17.46 ± 0.69 a	186.66 ± 5.43 a	21.00 ± 1.77 a	2.19 ± 0.33 a	227.34 ± 4.50 a
	SA	17.28 ± 1.17 a	195.18 ± 9.93 a	21.39 ± 0.81 a	1.65 ± 0.12 a	235.47 ± 9.99 a
	MeSA	17.49 ± 0.87 a	196.62 ± 6.42 a	23.49 ± 0.42 a	2.01 ± 0.15 a	239.61 ± 6.42 a
	ASA	19.14 ± 0.69 a	188.94 ± 6.54 a	20.58 ± 0.60 a	1.62 ± 0.15 a	230.25 ± 7.20 a

Abbreviations: SA-salicylic acid, MeSA-methyl salicylic acid, ASA-acetyl salicylic acid, C-control, h-hours, der-derivative, hex-hexoside. Data are presented as average value ± standard error (n = 15). ^aDifferent letters in a table denote significant differences among treatments (C, SA, MeSA, ASA) at each time point, calculated by the Tukey test ($p < 0.05$). ^b Sum of all identified hydroxycinnamic acid derivatives in strawberries.

Table S3: Content of Identified Flavanols (mg/kg FW) in C, SA, MeSA and ASA Treated Strawberries at Different Time Points (T0, 24 h, 72 h, 7 days and 10 days after treatments with salicylates).^a

	Treatment	Procyanidin dimer 1	Procyanidin dimer 2	Catechin	Total flavanols ^b
T0	C	5.01 ± 0.39 a	136.53 ± 10.41 a	213.27 ± 5.01 a	354.81 ± 10.20 a
	SA	5.43 ± 0.51 a	138.24 ± 2.97 a	206.13 ± 3.39 a	349.80 ± 2.28 a
	MeSA	4.77 ± 0.42 a	138.48 ± 5.01 a	202.83 ± 16.8 a	345.66 ± 20.61 a
	ASA	4.53 ± 0.51 a	142.20 ± 7.53 a	216.42 ± 15.75 a	363.15 ± 16.74 a
24 h	C	3.96 ± 0.48 a	83.79 ± 7.11 a	192.72 ± 9.30 a	310.47 ± 10.53 a
	SA	3.75 ± 0.90 a	142.41 ± 7.44 b	250.77 ± 4.23 c	396.90 ± 8.91 c
	MeSA	3.72 ± 0.93 a	137.04 ± 2.97 ab	232.26 ± 3.36 bc	373.02 ± 5.40 bc
	ASA	4.26 ± 1.05 a	122.16 ± 7.20 ab	208.86 ± 10.83 ab	335.25 ± 17.16 ab
72 h	C	4.53 ± 0.39 a	116.85 ± 3.24 a	261.33 ± 14.73 a	382.71 ± 17.01 a
	SA	5.01 ± 0.81 a	177.57 ± 7.20 b	300.33 ± 11.04 ab	482.85 ± 11.55 b
	MeSA	4.80 ± 0.21 a	181.44 ± 12.00 b	332.46 ± 12.57 b	518.70 ± 21.15 b
	ASA	4.23 ± 0.39 a	170.31 ± 13.05 b	300.33 ± 11.04 ab	474.99 ± 13.71 b
7 days	C	3.57 ± 1.08 a	234.27 ± 13.89 ab	349.17 ± 11.55 a	587.01 ± 12.27 ab
	SA	3.30 ± 0.78 a	209.37 ± 17.28 ab	378.69 ± 15.09 ab	591.33 ± 20.34 ab
	MeSA	2.07 ± 1.17 a	191.25 ± 8.40 a	387.81 ± 5.16 ab	581.13 ± 4.98 a
	ASA	3.96 ± 1.11 a	244.65 ± 13.89 b	399.87 ± 7.80 b	648.51 ± 21.87 b
10 days	C	3.06 ± 0.54 a	213.72 ± 11.67 a	461.49 ± 31.92 a	678.24 ± 43.26 a
	SA	2.73 ± 0.57 a	190.47 ± 21.09 a	459.90 ± 17.52 a	653.10 ± 27.99 a
	MeSA	2.94 ± 0.39 a	218.64 ± 11.22 a	505.41 ± 8.97 a	726.96 ± 17.25 a
	ASA	3.18 ± 0.60 a	210.09 ± 16.47 a	442.32 ± 12.81 a	655.56 ± 23.43 a

Abbreviations: SA-salicylic acid, MeSA-methyl salicylic acid, ASA-acetyl salicylic acid, C-control, h-hours. Data are presented as average value ± standard error (n = 15).

^aDifferent letters in a table denote significant differences among treatments (C, SA, MeSA, ASA) at each time point, calculated by the Tukey test (p < 0.05). ^b Sum of all identified flavanols in strawberries.

Table S4: Content of Identified Flavonols (mg/kg FW) in Salicylic Acid (SA), Methyl Salicylic Acid (MeSA) and Acetyl Salicylic Acid (ASA) Treated Strawberries at Different Time Points (T0, 24 h, 72 h, 7 days and 10 days after treatments with salicylates).

	Treatment	Isorhamn hex	Kaempf-3- coumaroyl glu	Kaempf-3- glucuronide	Kaempf-3- glu	Kaempf-3- rut	Kaempf acetyl hex	Q-3-glu	Q-3- glucuronide	Q-3-rut	Q-pent hex	Total flavonols
T0	C	0.93 ± 0.09 a	1.17 ± 0.06 a	1.23 ± 0.30 a	0.06 ± 0.00 a	0.66 ± 0.03 a	1.80 ± 0.42 a	2.16 ± 0.24 a	1.95 ± 0.30 a	1.05 ± 0.30 a	0.03 ± 0.00 a	11.19 ± 1.44 a
	SA	0.72 ± 0.06 a	1.2 ± 0.12 a	1.11 ± 0.30 a	0.06 ± 0.00 a	0.72 ± 0.09 a	1.47 ± 0.27 a	2.16 ± 0.12 a	1.47 ± 0.30 a	1.20 ± 1.20 a	0.06 ± 0.03 a	10.23 ± 0.93 a
	MeSA	0.87 ± 0.15 a	0.96 ± 0.09 a	1.17 ± 0.33 a	0.06 ± 0.00 a	0.60 ± 0.12 a	1.50 ± 0.48 a	1.86 ± 0.27 a	1.68 ± 0.45 a	1.05 ± 0.30 a	0.06 ± 0.03 a	9.81 ± 1.83 a
	ASA	0.84 ± 0.18 a	1.14 ± 0.09 a	1.17 ± 0.48 a	0.06 ± 0.03 a	0.72 ± 0.15 a	1.41 ± 0.54 a	2.40 ± 0.24 a	1.56 ± 0.45 a	1.38 ± 0.42 a	0.06 ± 0.03 a	10.74 ± 2.31 a
24 h	C	0.45 ± 0.06 a	0.87 ± 0.03 a	0.84 ± 0.24 a	0.06 ± 0.00 a	0.42 ± 0.06 a	0.45 ± 0.00 a	1.05 ± 0.06 a	1.32 ± 0.09 a	0.75 ± 0.03 a	0.06 ± 0.03 a	6.21 ± 0.33 a
	SA	0.45 ± 0.09 a	0.96 ± 0.06 a	1.59 ± 0.21 a	0.06 ± 0.00 a	0.07 ± 0.18 a	1.14 ± 0.36 ab	2.58 ± 0.15 c	2.52 ± 0.15 b	1.65 ± 0.18 a	0.03 ± 0.03 a	11.70 ± 0.87 b
	MeSA	0.45 ± 0.03 a	0.87 ± 0.09 a	0.90 ± 0.21 a	0.06 ± 0.00 a	0.60 ± 0.06 a	1.23 ± 0.15 ab	2.25 ± 0.15 bc	1.74 ± 0.03 a	2.76 ± 1.74 a	0.03 ± 0.00 a	10.83 ± 1.50 b
	ASA	0.39 ± 0.09 a	0.78 ± 0.06 a	1.11 ± 0.18 a	0.06 ± 0.03 a	0.51 ± 0.12 a	1.68 ± 0.24 b	1.86 ± 0.09 b	3.24 ± 0.27 c	0.93 ± 0.15 a	0.03 ± 0.00 a	10.56 ± 0.57 b
72 h	C	0.3 ± 0.06 a	0.84 ± 0.06 a	1.05 ± 0.42 a	0.06 ± 0.03 a	0.60 ± 0.15 a	0.90 ± 0.33 a	1.14 ± 0.03 a	0.87 ± 0.09 a	0.66 ± 0.06 a	0.03 ± 0.00 a	6.39 ± 0.99 a
	SA	0.30 ± 0.00 a	0.99 ± 0.03 a	1.05 ± 0.30 a	0.09 ± 0.03 a	0.63 ± 0.06 a	1.44 ± 0.27 a	3.24 ± 0.27 b	5.04 ± 0.24 d	1.08 ± 0.03 bc	0.03 ± 0.00 a	13.86 ± 0.66 b
	MeSA	0.39 ± 0.06 a	0.99 ± 0.06 a	2.04 ± 0.63 a	0.12 ± 0.03 a	0.96 ± 0.27 a	2.52 ± 0.60 a	2.91 ± 0.18 b	3.66 ± 0.27 c	1.32 ± 0.18 c	0.03 ± 0.00 a	14.94 ± 1.68 b
	ASA	0.24 ± 0.03 a	0.96 ± 0.09 a	0.87 ± 0.24 a	0.06 ± 0.00 a	0.48 ± 0.06 a	1.20 ± 0.33 a	2.61 ± 0.18 b	1.86 ± 0.09 b	0.87 ± 0.06 ab	0.06 ± 0.03 a	9.18 ± 0.84 a
7 days	C	0.36 ± 0.12 a	0.75 ± 0.03 a	1.02 ± 0.42 a	0.06 ± 0.03 a	0.69 ± 0.12 a	1.38 ± 0.54 a	1.68 ± 0.15 a	1.41 ± 0.12 a	1.11 ± 0.03 a	0.03 ± 0.00 a	8.46 ± 1.20 a
	SA	0.36 ± 0.09 a	0.84 ± 0.06 a	1.62 ± 0.54 a	0.12 ± 0.03 a	0.75 ± 0.15 a	2.40 ± 0.87 a	3.78 ± 0.42 b	4.14 ± 0.42 b	1.62 ± 0.09 a	0.09 ± 0.03 a	15.69 ± 2.40 a
	MeSA	0.36 ± 0.12 a	0.81 ± 0.06 a	1.59 ± 0.78 a	0.09 ± 0.03 a	0.72 ± 0.21 a	2.16 ± 0.99 a	2.79 ± 0.15 ab	2.34 ± 0.15 a	1.59 ± 0.30 a	0.03 ± 0.00 a	12.48 ± 2.52 a
	ASA	0.36 ± 0.06 a	0.87 ± 0.09 a	0.87 ± 0.09 a	0.12 ± 0.06 a	0.75 ± 0.18 a	1.59 ± 0.15 a	3.42 ± 0.54 b	2.16 ± 0.15 a	1.74 ± 0.15 a	0.09 ± 0.03 a	12.00 ± 1.08 a

(to be continued)

(Continuation of Table S4)

	Treatment	Isorhamn hex	Kaempf-3- coumaroyl glu	Kaempf-3- glucuronide	Kaempf-3- glu	Kaempf-3- rut	Kaempf acetyl hex	Q-3-glu	Q-3- glucuronide	Q-3-rut	Q-pent hex	Total flavonols
10 days	C	0.30 ± 0.06 a	0.93 ± 0.12 a	0.57 ± 0.24 a	0.06 ± 0.03 a	0.54 ± 0.15 a	0.90 ± 0.30 a	3.87 ± 0.99 a	1.35 ± 0.45 a	1.32 ± 0.45 a	0.12 ± 0.03 a	9.93 ± 2.64 a
	SA	0.30 ± 0.06 a	0.87 ± 0.06 a	0.87 ± 0.15 a	0.06 ± 0.00 a	0.60 ± 0.09 a	1.44 ± 0.27 a	2.31 ± 0.36 a	1.86 ± 0.18 a	1.14 ± 0.12 a	0.06 ± 0.00 a	9.51 ± 1.35 a
	MeSA	0.33 ± 0.03 a	0.96 ± 0.06 a	0.69 ± 0.12 a	0.06 ± 0.00 a	0.57 ± 0.06 a	1.29 ± 0.21 a	3.72 ± 0.60 a	1.83 ± 0.18 a	1.32 ± 0.15 a	0.06 ± 0.03 a	10.83 ± 1.23 a
	ASA	0.30 ± 0.06 a	0.81 ± 0.09 a	1.20 ± 0.36 a	0.09 ± 0.00 a	0.60 ± 0.09 a	1.98 ± 0.54 a	2.19 ± 0.24 a	2.28 ± 0.54 a	1.29 ± 0.18 a	0.06 ± 0.03 a	10.77 ± 1.86 a

Abbreviations: SA-salicylic acid, MeSA-methylsalicylic acid, ASA-acetyl salicylic acid, C-control, h-hours, Isorhamn-isorhamnetin, hex-hexoside, kaempf-kaempferol, glu-glucoside, rut-rutinoside, Q-quercetin, pent-pentoside. Data are presented as average value ± standard error (n = 15). ^aDifferent letters in a table denote significant differences among treatments (C, SA, MeSA, ASA) at each time point, calculated by the Tukey test (p < 0.05). ^b Sum of all identified flavonols in strawberries.

Table S5: Content of Identified Flavones (mg/kg FW) in Salicylic Acid (SA), Methyl Salicylic Acid (MeSA) and Acetyl Salicylic Acid (ASA) Treated Strawberries at Different Time Points (T0, 24 h, 72 h, 7 days and 10 days after treatments with salicylates).

	Treatment	Apig rhamn	Apig acetyl hex 1	Apig acetyl hex 2	Total flavones
T0	C	5.28 ± 0.36 a	11.31 ± 0.69 a	97.89 ± 1.26 a	114.48 ± 1.80 a
	SA	5.76 ± 0.30 a	10.56 ± 1.47 a	90.21 ± 1.71 a	106.53 ± 2.79 a
	MeSA	5.64 ± 0.54 a	11.43 ± 1.23 a	92.70 ± 2.10 a	109.80 ± 2.46 a
	ASA	5.31 ± 0.66 a	10.29 ± 0.96 a	96.06 ± 3.39 a	112.53 ± 4.74 a
24 h	C	5.70 ± 0.75 a	11.73 ± 0.30 a	93.09 ± 1.86 a	110.55 ± 2.67 a
	SA	6.00 ± 0.3 a	11.13 ± 3.48 a	112.41 ± 2.82 b	129.54 ± 2.73 b
	MeSA	5.07 ± 0.54 a	12.66 ± 0.90 a	111.93 ± 4.89 b	129.63 ± 5.34 b
	ASA	6.09 ± 0.57 a	11.49 ± 0.54 a	111.48 ± 3.51 b	129.54 ± 3.93 b
72 h	C	6.6 ± 0.27 a	9.99 ± 1.14 a	91.56 ± 6.30 a	108.15 ± 7.62 a
	SA	7.83 ± 3.39 ab	10.68 ± 0.75 a	97.89 ± 5.16 a	116.40 ± 5.64 a
	MeSA	8.88 ± 0.63 b	12.81 ± 1.41 a	134.85 ± 11.04 b	156.51 ± 12.60 b
	ASA	7.05 ± 0.69 ab	9.57 ± 0.90 a	90.84 ± 5.07 a	107.43 ± 5.28 a
7 days	C	10.89 ± 0.72 a	13.71 ± 1.56 a	132.27 ± 10.35 a	156.87 ± 11.58 a
	SA	14.37 ± 1.17 b	14.79 ± 2.13 a	126.00 ± 11.7 a	155.13 ± 13.71 a
	MeSA	10.74 ± 0.45 a	15.48 ± 2.37 a	136.59 ± 5.10 a	162.78 ± 7.56 a
	ASA	10.74 ± 0.48 a	15.21 ± 0.96 a	149.67 ± 9.69 a	175.62 ± 10.65 a
10 days	C	12.54 ± 0.42 a	14.61 ± 1.23 a	144.39 ± 9.63 a	171.51 ± 10.35 a
	SA	14.82 ± 1.38 ab	15.48 ± 1.41 a	161.91 ± 4.62 ab	192.21 ± 5.22 ab
	MeSA	17.04 ± 1.02 b	15.15 ± 0.84 a	138.27 ± 2.97 a	170.46 ± 4.41 a
	ASA	13.68 ± 0.63 ab	18.63 ± 2.67 a	186.72 ± 6.36 b	219.03 ± 7.89 b

Abbreviations: SA-salicylic acid, MeSA-methyl salicylic acid, ASA-acetyl salicylic acid, C-control, h-hours, apig-apigenin, hex-hexoside. Data are presented as average value ± standard error (n = 15). ^aDifferent letters in a table denote significant differences among treatments (C, SA, MeSA, ASA) at each time point, calculated by the Tukey test (p < 0.05). ^b Sum of all identified flavones in strawberries.

Table S6: Content of Identified Antocyanins (mg/kg FW) in Salicylic Acid (SA), Methyl Salicylic Acid (MeSA) and Acetyl Salicylic Acid (ASA) Treated Strawberries at Different Time Points (T0, 24 h, 72 h, 7 days and 10 days after treatments with salicylates).

	Treatment	Cy-3-glu	Pel-3-glu	Pel-3-rut	Cy-3-malonylglu	Pel-3-malonylglu	Total anthocyanins
T0	C	9.33 ± 0.66 a	288.27 ± 7.86 a	11.01 ± 0.45 a	3.39 ± 0.27 a	72.66 ± 4.59 a	386.73 ± 8.37 a
	SA	9.06 ± 0.78 a	300.09 ± 11.16 a	11.16 ± 0.39 a	3.33 ± 0.51 a	66.09 ± 4.89 a	392.07 ± 13.62 a
	MeSA	10.05 ± 1.32 a	299.94 ± 10.20 a	11.28 ± 0.63 a	4.26 ± 1.20 a	78.57 ± 6.42 a	406.50 ± 16.20 a
	ASA	7.89 ± 1.08 a	282.51 ± 8.34 a	10.29 ± 0.66 a	3.00 ± 0.57 a	67.95 ± 3.69 a	373.5 ± 12.09 a
24 h	C	7.26 ± 0.75 a	228.63 ± 1.56 a	5.16 ± 0.33 a	2.64 ± 0.33 a	54.00 ± 1.44 a	298.80 ± 2.37 a
	SA	10.68 ± 0.39 b	338.7 ± 7.53 c	12.24 ± 0.12 c	3.21 ± 0.30 a	82.56 ± 2.49 b	450.06 ± 7.59 d
	MeSA	7.26 ± 0.75 a	256.23 ± 4.62 b	6.93 ± 0.93 ab	2.64 ± 0.33 a	59.40 ± 2.97 a	333.60 ± 6.42 b
	ASA	8.43 ± 0.3 ab	277.05 ± 6.84 b	8.31 ± 0.33 b	3.06 ± 0.51 a	72.51 ± 2.85 b	372.03 ± 9.54 c
72 h	C	9.03 ± 1.14 a	262.95 ± 3 a	12.24 ± 1.11 a	4.83 ± 1.29 a	60.57 ± 3.96 a	352.83 ± 8.16 a
	SA	12.39 ± 0.39 a	330.69 ± 7.53 b	14.22 ± 0.27 a	5.16 ± 0.33 a	71.19 ± 6.24 a	436.83 ± 14.25 bc
	MeSA	10.26 ± 0.81 a	345.39 ± 9.18 b	15.96 ± 1.29 a	6.54 ± 1.68 a	88.53 ± 9.93 a	469.83 ± 14.25 c
	ASA	11.49 ± 0.9 a	290.28 ± 7.2 a	12.93 ± 1.26 a	6.03 ± 2.58 a	67.62 ± 7.14 a	392.91 ± 12.27 ab
7 days	C	15.42 ± 1.11 a	402.63 ± 6.36 a	20.91 ± 0.72 a	7.38 ± 0.30 a	90.81 ± 12.69 a	542.28 ± 15.75 a
	SA	13.95 ± 1.89 a	463.74 ± 10.83 b	21.66 ± 1.44 a	8.07 ± 1.26 a	95.97 ± 7.23 a	608.91 ± 16.56 ab
	MeSA	13.68 ± 2.7 a	471.18 ± 19.26 b	19.59 ± 1.59 a	6.15 ± 0.69 a	114.87 ± 15.21 a	630.15 ± 34.14 b
	ASA	16.08 ± 1.83 a	465.96 ± 11.37 b	19.41 ± 0.93 a	6.99 ± 1.20 a	89.94 ± 10.02 a	602.97 ± 7.23 ab
10 days	C	14.7 ± 0.75 a	395.64 ± 7.68 a	20.40 ± 2.07 a	7.41 ± 1.95 a	86.01 ± 7.68 a	529.32 ± 12.57 a
	SA	15.36 ± 1.17 a	475.32 ± 14.94 b	16.38 ± 1.95 a	5.58 ± 0.72 a	139.14 ± 8.34 bc	655.95 ± 15.78 b
	MeSA	17.88 ± 0.39 a	481.83 ± 13.14 b	21.48 ± 1.47 a	8.25 ± 0.63 a	109.08 ± 9.96 ab	644.13 ± 10.08 b
	ASA	14.19 ± 1.77 a	487.95 ± 22.41 b	16.95 ± 0.84 a	6.30 ± 0.93 a	147.42 ± 9.96 c	678.36 ± 35.25 b

Abbreviations: SA-salicylic acid, MeSA-methyl salicylic acid, ASA-acetyl salicylic acid, C-control, h-hours, Cy-cyanidin, glu-glucoside, pel-pelargonidin, rut-rutinoside.

Data are presented as average value ± standard error (n = 15). ^aDifferent letters in a table denote significant differences among treatments (C, SA, MeSA, ASA) at each time point, calculated by the Tukey test (p < 0.05). ^b Sum of all identified anthocyanins in strawberries.

Table S7: Content of Identified Flavanones (mg/kg FW) in Salicylic Acid (SA), Methyl Salicylic Acid (MeSA) and Acetyl Salicylic Acid (ASA) Treated Strawberries at Different Time Points (T0, 24 h, 72 h, 7 days and 10 days after treatments with salicylates).

	Treatment	Eriodictyol acetyl hex	Naringenin hex	Total flavanones
T0	C	1.11 ± 0.09 a	0.06 ± 0.00 a	1.14 ± 0.09 a
	SA	0.87 ± 0.09 a	0.06 ± 0.00 a	1.08 ± 0.21 a
	MeSA	1.14 ± 0.18 a	0.09 ± 0.00 a	1.23 ± 0.18 a
	ASA	0.90 ± 0.09 a	0.09 ± 0.03 a	0.99 ± 0.15 a
24 h	C	1.20 ± 0.15 a	0.06 ± 0.03 a	1.26 ± 0.12 a
	SA	1.02 ± 0.18 a	0.03 ± 0.00 a	1.05 ± 0.18 a
	MeSA	1.29 ± 0.12 a	0.03 ± 0.00 a	1.32 ± 0.12 a
	ASA	1.17 ± 0.18 a	0.03 ± 0.00 a	1.20 ± 0.18 a
72 h	C	1.05 ± 0.12 a	0.03 ± 0.00 a	1.08 ± 0.12 a
	SA	1.11 ± 0.15 a	0.03 ± 0.00 a	1.14 ± 0.15 a
	MeSA	1.38 ± 0.21 a	0.03 ± 0.00 a	1.41 ± 0.18 a
	ASA	1.02 ± 0.15 a	0.03 ± 0.00 a	1.05 ± 0.15 a
7 days	C	1.74 ± 0.27 a	0.03 ± 0.00 a	1.74 ± 0.27 a
	SA	1.92 ± 0.39 a	0.03 ± 0.00 a	1.92 ± 0.39 a
	MeSA	2.04 ± 0.39 a	0.03 ± 0.00 a	2.04 ± 0.39 a
	ASA	1.95 ± 0.18 a	0.03 ± 0.00 a	1.98 ± 0.18 a
10 days	C	1.74 ± 0.24 a	0.03 ± 0.00 a	1.77 ± 0.24 a
	SA	2.01 ± 0.21 a	0.03 ± 0.00 a	2.01 ± 0.21 a
	MeSA	1.86 ± 0.24 a	0.03 ± 0.00 a	1.86 ± 0.24 a
	ASA	2.67 ± 0.48 a	0.03 ± 0.00 a	2.70 ± 0.48 a

Abbreviations: SA-salicylic acid, MeSA-methyl salicylic acid, ASA-acetyl salicylic acid, C-control, h-hours, hex-hexoside. Data are presented as average value ± standard error (n = 15). ^aDifferent letters in a table denote significant differences among treatments (C, SA, MeSA, ASA) at each time point, calculated by the Tukey test (p < 0.05). ^b Sum of all identified flavanones in strawberries.

Table S8: Content of Identified Ellagic Acid Derivatives (mg/kg FW) in Salicylic Acid (SA), Methyl Salicylic Acid (MeSA) and Acetyl Salicylic Acid (ASA) Treated Strawberries at Different Time Points (T0, 24 h, 72 h, 7 days and 10 days after treatments with salicylates).

	Treatment	bis HHDP hexose 1	bis HHDP hexose 2	Ellag acid pent 1	Ellag acid pent 2	Ellag acid hex	Ellag acid deoxy hex	Ellag acid rhamn	Total ellag acid derivat
T0	C	10.65 ± 2.61 a	24.63 ± 2.16 a	7.23 ± 0.36 a	1.89 ± 0.39 a	68.16 ± 3.18 a	0.21 ± 0.06 a	0.63 ± 0.15 a	116.37 ± 7.35 a
	SA	10.86 ± 1.53 a	29.91 ± 2.88 a	6.54 ± 0.36 a	1.83 ± 0.42 a	67.68 ± 5.85 a	0.30 ± 0.09 a	0.45 ± 0.09 a	117.54 ± 8.43 a
	MeSA	12.48 ± 1.38 a	26.37 ± 2.34 a	7.68 ± 0.84 a	2.31 ± 0.90 a	68.31 ± 1.98 a	0.66 ± 0.36 a	0.84 ± 0.21 a	118.65 ± 6.00 a
	ASA	9.72 ± 1.29 a	24.87 ± 2.88 a	6.69 ± 1.05 a	1.68 ± 0.36 a	62.34 ± 3.15 a	0.66 ± 0.24 a	1.08 ± 0.63 a	107.04 ± 7.98 a
24 h	C	10.92 ± 0.84 a	21.84 ± 2.64 a	7.62 ± 0.93 a	1.77 ± 0.09 a	75.72 ± 6.15 a	0.27 ± 0.06 a	0.57 ± 0.33 a	115.68 ± 9.18 a
	SA	9.33 ± 1.44 a	20.58 ± 5.04 a	7.02 ± 0.42 a	1.77 ± 0.45 a	72.33 ± 4.08 a	0.45 ± 0.24 a	0.30 ± 0.12 a	111.81 ± 10.83 a
	MeSA	10.26 ± 1.71 a	20.46 ± 5.13 a	6.63 ± 0.48 a	1.11 ± 0.33 a	77.04 ± 4.35 a	0.30 ± 0.06 a	0.21 ± 0.09 a	115.98 ± 7.74 a
	ASA	10.8 ± 2.82 a	23.43 ± 5.76 a	6.45 ± 0.51 a	1.17 ± 0.30 a	69.33 ± 6.33 a	0.15 ± 0.06 a	0.18 ± 0.06 a	111.39 ± 14.88 a
72 h	C	11.52 ± 2.46 a	24.99 ± 2.4 a	7.14 ± 0.69 ab	0.66 ± 0.18 a	81.84 ± 6.51 a	0.18 ± 0.06 a	0.12 ± 0.03 a	126.36 ± 11.76 a
	SA	10.02 ± 0.57 a	27.33 ± 4.5 a	8.58 ± 0.54 ab	1.35 ± 0.24 a	88.77 ± 3.12 a	0.18 ± 0.03 a	0.18 ± 0.03 a	136.44 ± 3.36 a
	MeSA	10.20 ± 1.59 a	26.37 ± 1.23 a	9.60 ± 0.81 b	1.29 ± 0.36 a	102.75 ± 6.93 a	0.27 ± 0.09 a	0.24 ± 0.09 a	150.72 ± 8.67 a
	ASA	8.67 ± 2.01 a	23.22 ± 2.25 a	6.87 ± 0.33 a	0.60 ± 0.03 a	82.02 ± 4.95 a	0.15 ± 0.03 a	0.18 ± 0.06 a	121.77 ± 8.16 a
7 days	C	10.59 ± 1.26 a	19.68 ± 5.91 a	11.49 ± 0.42 a	1.29 ± 0.33 a	137.28 ± 9.54 a	0.45 ± 0.12 a	0.15 ± 0.03 a	180.93 ± 14.07 a
	SA	8.40 ± 0.75 a	18.15 ± 4.35 a	12.87 ± 1.23 a	1.80 ± 0.6 a	127.41 ± 11.61 a	0.36 ± 0.06 a	0.09 ± 0.03 a	169.11 ± 14.46 a
	MeSA	8.94 ± 0.84 a	11.43 ± 6.48 a	12.42 ± 1.05 a	0.84 ± 0.06 a	122.01 ± 4.98 a	0.39 ± 0.09 a	0.21 ± 0.09 a	156.21 ± 10.68 a
	ASA	9.09 ± 0.57 a	21.87 ± 6.12 a	12.87 ± 1.38 a	1.50 ± 0.54 a	129.54 ± 4.23 a	0.3 ± 0.06 a	0.30 ± 0.09 a	175.47 ± 9.42 a
10 days	C	4.77 ± 1.17 a	16.83 ± 2.97 a	12.27 ± 0.93 a	1.23 ± 0.36 a	132.69 ± 5.55 a	0.42 ± 0.12 a	0.18 ± 0.09 a	168.39 ± 5.67 a
	SA	7.77 ± 1.08 a	14.97 ± 3.15 a	10.77 ± 0.99 a	0.99 ± 0.18 a	126.12 ± 3.36 a	0.39 ± 0.06 a	0.15 ± 0.03 a	161.16 ± 6.33 a
	MeSA	6.51 ± 1.17 a	16.20 ± 2.22 a	12.24 ± 0.36 a	1.44 ± 0.57 a	131.28 ± 8.37 a	0.39 ± 0.12 a	0.12 ± 0.03 a	168.15 ± 11.37 a
	ASA	6.24 ± 1.05 a	17.52 ± 3.24 a	11.82 ± 1.02 a	0.75 ± 0.06 a	134.25 ± 9.36 a	0.27 ± 0.03 a	0.12 ± 0.06 a	170.97 ± 14.22 a

Abbreviations: SA-salicylic acid, MeSA-methyl salicylic acid, ASA-acetyl salicylic acid, C-control, h-hours, HHDP- hexahydroxydiphenic acid, ellag-ellagic, pent-pentoside, hex-hexoside, rhamn-rhamnoside, derivat-derivative . Data are presented as average value ± standard error (n = 15). ^aDifferent letters in a table denote significant differences among treatments (C, SA, MeSA, ASA) at each time point, calculated by the Tukey test (p < 0.05). ^b Sum of all identified ellagic acid derivatives in strawberries.