

Table S1: Identification of the set of metabolites found in fruits treated with 0.75 mg/ml of chitosan. Treatments having different lowercase letters are significantly different using one-way ANOVA and Duncan test ($p \leq 0.05$)

	Compounds	Features	MS1 Feature	RT (min)	Ion mode	Monoisotopic mass			Fragments (MS/MS)			Smiles	InChI	Abundance in fruits from treated plants with chitosan (mg.mL ⁻¹)				
						Detected	Database	Formulae	Detected	Database	Formulae			0	0.25	0.50	0.75	1
Benzenesulfonates	4-(3-butylnonyl)-benzenesulfonic acid	1	339.196	17.38	Negative	***	340.2072	C ₁₉ H ₃₂ O ₃ S	325.1779 220.1476 183.0132 119.0502 79.9586	325.1843 220.1308 183.0132 119.0536 79.9579	C ₁₈ H ₂₉ O ₃ S ⁻ C ₁₄ H ₂₀ S ⁴⁺ C ₈ H ₇ O ₃ S ³⁻ C ₅ H ₁₁ OS ⁻ O ₃ S ²⁻	OS(C1=CC=C(CCC(CCCCC)CCCC)C=C1)(=O)=O	-	7135b	22006a	30186a	18196ab	17646ab
Benzoates	Dihydroxyphenyl-5-methyloxazoline-norspermidine-2,3-dihydroxybenzoate	2	487.298	16.21	Positive	***	486.2114	C ₂₄ H ₃₀ N ₄ O ₇	486.3007 351.2350 147.1190 133.1300 105.1019 91.0873	486.3043 351.2391 147.1128 133.1335 105.1022 91.0866	C ₂₃ H ₄₂ N ₄ O ₇ ²⁺ C ₁₈ H ₃₁ N ₄ O ₃ ⁺ C ₆ H ₁₃ N ₂ O ₂ ⁺ C ₆ H ₁₇ N ₂ O ⁺ C ₄ H ₁₃ N ₂ O ⁺ C ₃ H ₁₁ N ₂ O ⁺	C[C@H]2(OC(/C1(\C=C/C(/O)=C(/C=1)/O))=N/C2C(=O)NC(CNCCCNC(=O)C3(/C=C/C(C(/O)=3)O)))	InChI=1S/C24H30N4O7/c1-14-20(28-24(35-14)15-7-8-17(29)19(31)13-15)23(34)27-12-4-10-25-9-3-11-26-22(33)16-5-2-6-18(30)21(16)32/h2,5-8,13-14,20,25,29-32H,3-4,9-12H2,1H3,(H,26,33)(H,27,34)/t14-,20?/m1/s1	1839b	2506b	3038b	5597ab	20193a
			3	488.348	16.23	Positive	***	486.2114	C ₂₄ H ₃₀ N ₄ O ₇	486.3007 351.2350 147.1190 133.1300 105.1019 91.0873	486.3043 351.2391 147.1128 133.1335 105.1022 91.0866	C ₂₃ H ₄₂ N ₄ O ₇ ²⁺ C ₁₈ H ₃₁ N ₄ O ₃ ⁺ C ₆ H ₁₃ N ₂ O ₂ ⁺ C ₆ H ₁₇ N ₂ O ⁺ C ₄ H ₁₃ N ₂ O ⁺ C ₃ H ₁₁ N ₂ O ⁺	C[C@H]2(OC(/C1(\C=C/C(/O)=C(/C=1)/O))=N/C2C(=O)NC(CNCCCNC(=O)C3(/C=C/C(C(/O)=3)O)))	InChI=1S/C22H31NO14S2/c1-33-13-9-12(10-14(34-2)18(13)26)6-7-17(25)35-8-4-3-5-16(23-37-39(30,31)32)38-22-21(29)20(28)19(27)15(11-24)36-22/h6-7,9-10,15,19-22,24,26-29H,3-5,8,11H2,1-2H3,(H,30,31,32)/p-1/b7-6+,23-16+/t15-,19-,20+,21-,22+/m1/s1	4796b	8609ab	11926a	9638ab
Desulfoglucosinolates	4-sinapoyloxybutylglucosinolate	4	597.175	5.43	Negative	***	597.1186	C ₂₂ H ₃₁ NO ₁₄ S ₂	477.1587 255.0308 119.0383	477.1502 255.0246 119.0405	C ₂₀ H ₃₁ NO ₈ S ₂ ²⁻ C ₇ H ₁₃ NO ₃ S ₂ ²⁻ C ₄ H ₉ NOS	COC2(/C=C(/C=C/C(OCCCC)/S[C@@H]1(O[C@H](CO)[C@@H](O)[C@H](O)[C@@H](O)1))=N\OS(=O)=O)[O-])=O)/C=C(C(O)=2)/OC	InChI=1S/C22H31NO14S2/c1-33-13-9-12(10-14(34-2)18(13)26)6-7-17(25)35-8-4-3-5-16(23-37-39(30,31)32)38-22-21(29)20(28)19(27)15(11-24)36-22/h6-7,9-10,15,19-22,24,26-29H,3-5,8,11H2,1-2H3,(H,30,31,32)/p-1/b7-6+,23-16+/t15-,19-,20+,21-,22+/m1/s1	23263c	26701c	50648b	87047a	42042b
	5-(methylsulfanyl)pentyl-desulfoglucosinolate (I & II) derivative	5	515.111	5.79	Negative	***	***	***	293.1068 179.0370 173.0463	293.1130 179.0450 173.0521	C ₁₂ H ₂₃ NO ₃ S ₂ ²⁻ C ₆ H ₁₃ NOS ₂ ³⁻ C ₇ H ₁₁ NO ₂ S ²⁻	CSCCCCCC/S[C@@H]1(O[C@H](CO)[C@@H](O)[C@H](O)[C@@H](O)1))=NO	InChI=1S/C13H25NO6S2/c1-21-6-4-2-3-5-9(14-19)22-13-12(18)11(17)10(16)8(7-15)20-13/h8,10-13,15-19H,2-7H2,1H3/b14-9+/t8-,10-,11+,12-,13+/m1/s1	4169c	12016abc	22147a	16387ab	7743bc

Phenylpropanoids	1-(3,4-dihydroxyphenyl)-5-hydroxy-3-decanone	6	280.184	8.7	Positive	***	280.1675	C ₁₆ H ₂₄ O ₄	172.1449 116.0783 108.0507	172.1452 116.0826 108.0564	C ₁₀ H ₂₀ O ₂ ²⁺ C ₆ H ₁₂ O ₂ ²⁺ C ₇ H ₈ O ²⁺	CCCCC[C@H](O)C C(=O)CCCC(C=C(C C(O)=C=C=1)O)	InChI=1S/C16H24O4/c1-2-3-4-5-13(17)11-14(18)8-6-12-7-9-15(19)16(20)10-12/h7,9-10,13,17,19-20H,2-6,8,11H2,1H3/t13-/m0/s1	34025b	39727ab	45349ab	57783a	56184a	
Fatty acids	Linolenate conjugated	7	325.236	17.43	Negative	***	***	***	279.2312	279.2330	C ₁₈ H ₃₁ O ₂ ⁻	CC\C=C/C\C=C/C\C=C/C =C/CCCCCCCC(=O)a glycerolipid]	-	5196ab	5622ab	4588b	8509a	5847ab	
		8	447.244	16.39	Negative	***	***	***	279.2312	279.2330	C ₁₈ H ₃₁ O ₂ ⁻			3068b	9001ab	12803a	15119a	6521ab	
		9	463.285	15.06	Negative	***	***	***	279.2312 255.2312	279.2330 255.233	C ₁₈ H ₃₁ O ₂ ⁻ C ₁₆ H ₃₁ O ₂ ⁻			13514c	21482bc	28089b	54438a	20630bc	
		10	487.286	14.24	Negative	***	***	***	279.2312	279.2330	C ₁₈ H ₃₁ O ₂ ⁻			7810b	16461b	11777b	30702a	11314b	
		11	559.306	12.75	Negative	***	***	***	277.2151	277.2173	C ₁₈ H ₂₉ O ₂ ⁻			57614b	49322b	169901a	132406a	54561b	
		12	561.322	13.41	Negative	***	***	***	279.2312	279.2330	C ₁₈ H ₃₁ O ₂ ⁻			12810bc	33029ab	32821ab	44741a	8618c	
		13	562.307	11.76	Negative	***	***	***	279.2312	279.2330	C ₁₈ H ₃₁ O ₂ ⁻			23339a	18663a	66075a	71246a	72596a	
		14	564.324	12.28	Negative	***	***	***	277.2151	277.2173	C ₁₈ H ₂₉ O ₂ ⁻			75115b	71852b	50183b	127415a	63186b	
		15	563.336	14.77	Negative	***	***	***	277.2151	277.2173	C ₁₈ H ₂₉ O ₂ ⁻			6570ab	12189a	7841ab	10895a	3274b	
	16	721.354	11.34	Negative	***	***	***	277.2151	277.2173	C ₁₈ H ₂₉ O ₂ ⁻	7180b	4953b	14125a	12677a	6159b				
	17	723.371	12.07	Negative	***	***	***	279.2312	279.2330	C ₁₆ H ₃₁ O ₂ ⁻	3994b	11723a	13222a	15189a	3043b				
		12-oxo-9-hydroxy-10[E],15(Z)-octadecadienoate	18	311.213	16.92	Positive	***	310.2144	C ₁₈ H ₃₀ O ₄	203.2080 177.1528 105.0926 77.0551	203.2006 177.1485 105.0910 77.0597	C ₁₂ H ₂₇ O ₂ ⁺ C ₉ H ₂₁ O ₃ ⁺ C ₃ H ₁₃ O ₂ ⁺ C ₃ H ₉ O ₂ ⁺	CC\C=C/CCC(=O)/ C=C/C(O)CCCCC CC(=O)[O-]	InChI=1S/C18H30O4/c1-2-3-4-8-11-16(19)14-15-17(20)12-9-6-5-7-10-13-18(21)22/h3-4,14-15,17,20H,2,5-13H2,1H3,(H,21,22)/p-1/b4-3-,15-14+	21169a	20147a	22425a	32376a	28937a
		2-oxo-behenate	19	355.339	12.31	Positive	***	354.3134	C ₂₂ H ₄₂ O ₃	183.1714 172.1724	183.1743 172.1816	C ₁₂ H ₂₃ O ⁺ C ₁₁ H ₂₄ O ²⁺	C(CCCCCCCCCC CCCCCCCCC(O-))=O=O	InChI=1S/C22H42O3/c23-21-19-17-15-13-11-9-7-5-3-1-2-4-6-8-10-12-14-16-18-20-22(24)25/h21H,1-20H2,(H,24,25)/p-1	3620ab	5299ab	4757ab	7179a	1860b
		2-undecanone	20	171.169	15.90	Positive	***	170.1671	C ₁₁ H ₂₂ O ⁺	171.1665 101.0889 73.0470	171.1743 101.0961 73.0648	C ₁₁ H ₂₃ O ⁺ C ₆ H ₁₃ O ⁺ C ₄ H ₉ O ⁺	CCCCCCCCC(=O)C	InChI=1S/C11H22O/c1-3-4-5-6-7-8-9-10-11(2)12/h3-10H2,1-2H3	2533a	2978a	3066a	2711a	2596a
		Derivative	21	289.283	15.90	Positive	***	***	***	172.1724 171.1665	172.1816 171.1743	C ₁₁ H ₂₄ O ²⁺ C ₁₁ H ₂₃ O ⁺	-	-	2653b	2901b	119097a	2924b	2592b
	Flavonoids	Anthocyanins Cyanidin-3-O-β-D-glucoside	22	449.106	5.39	Negative	***	449.1078	C ₂₁ H ₂₁ O ₁₁ ⁺	449.1079 269.1109 135.0451 101.0393	449.1087 269.1183 135.0452 101.0608	C ₂₁ H ₂₁ O ₁₁ ⁺ C ₁₇ H ₁₇ O ₃ ⁻ C ₈ H ₇ O ₂ ⁻ C ₅ H ₉ O ₂ ⁻	C(O)[C@@H]1([C@@H](O)[C@H](O)][C@@H](O)[C@@H](O) H](O)OC3(C(C2(C=C(C(O)=C=C=2) O))=[O+])C4(C(C=3)=C(C=C=4)/[O-]))	InChI=1S/C21H20O11/c2-7-16-17(27)18(28)19(29)21(32)-16)31-15-6-10-12(25)4-9(23)5-14(10)30-20(15)8-1-2-11(24)13(26)3-8/h1-6,16-19,21-22,27-29H,7H2,(H3-,23,24,25,26)/p-1/t16-,17-,18+,19-,21-/m1/s1	18926a	29479a	11112a	34816a	7055a
		Cyanidin-3-O-β-D-											C(O)[C@@H]1([C@@H](O)[C@H](O)][C@@H](O)[C@@H](O)][C@@H](O)[C@@H](O)	InChI=1S/C21H20O11/c2-7-16-17(27)18(28)19(29)21(32)					

glucopyrano- side											H](O1)OC3(\C(C2(\C=C(C(O)=C\C=2)\O))=[O+]C4(\C/C=3)=C/C=C(C=4)[O-])\O-))	-16)31-15-6-10-12(25)4-9(23)5-14(10)30-20(15)8-1-2-11(24)13(26)3-8/h1-6,16-19,21-22,27-29H,7H2,(H3-23,24,25,26)/p-1/t16-,17-,18+,19-,21-/m1/s1						
Cyanidin-5-O-β-D-glucoside											C(O)[C@@H]1([C@@H](O)[C@H](O)[C@@H](O)[C@@H](O1)OC3(\C4(C=C(C(C2(\C=C(C(O)=C\C=2)\O))=[O+]C(\C=C(=3)[O-])=4)[O-]))	InChI=1S/C21H20O11/c2-7-16-17(27)18(28)19(29)21(32-16)31-15-5-9(23)4-14-10(15)6-13(26)20(30-14)8-1-2-11(24)12(25)3-8/h1-6,16-19,21-22,27-29H,7H2,(H3-23,24,25,26)/p-1/t16-,17-,18+,19-,21-/m1/s1						
Cyanidin-3-O-β-D-galactoside											C(O)[C@@H]1([C@@H](O)[C@H](O)[C@@H](O)[C@@H](O1)OC3(\C(C2(\C=C(C(O)=C\C=2)\O))=[O+]C(\C=C(=3)[O-])=4)[O-]))	InChI=1S/C21H20O11/c2-7-16-17(27)18(28)19(29)21(32-16)31-15-6-10-12(25)4-9(23)5-14(10)30-20(15)8-1-2-11(24)13(26)3-8/h1-6,16-19,21-22,27-29H,7H2,(H3-23,24,25,26)/t16-,17+,18+,19-,21-/m1/s1						
Anthocyanins Pelargonidin-3-O-β-D-glucoside											C(O)[C@H]1(O[C@@H]([C@@H]([C@@H](O)O)OC2(\C(=[O+]C3(\C=C(C(C(\C=2)=3)[O-]))O))C4(\C=C(C(O)=C\C=4)))	InChI=1S/C21H20O10/c2-8-16-17(26)18(27)19(28)21(31-16)30-15-7-12-13(25)5-11(24)6-14(12)29-20(15)9-1-3-10(23)4-2-9/h1-7,16-19,21-22,26-28H,8H2,(H2-23,24,25)/t16-,17-,18+,19-,21-/m1/s1						
Luteolinidin-3-O-β-D-glucoside	23	433.110	5.26	Negative	***	433.1129	C ₂₁ H ₂₁ O ₁₀ ⁺	433.1125 282.1098 271.0600 119.0502	433.1140 282.1103 271.0612 119.0502	C ₂₁ H ₂₁ O ₁₀ ⁻ C ₁₄ H ₁₈ O ₆ C ₁₅ H ₁₁ O ₅ C ₈ H ₇ O ⁻	C1=CC(=C(C=C1C2=[O+]C3=C(C=C2)C(=CC(=C3)O)OC4(C(C(C(O4)CO)O)O)O	InChI=1S/C21H20O10/c2-8-17-18(26)19(27)20(28)21(31-17)30-16-7-10(23)6-15-11(16)2-4-14(29-15)9-1-3-12(24)13(25)5-9/h1-7,17-22,26-28H,8H2,(H2-23,24,25)/p+1/t17-,18-,19+,20-,21-/m1/s1	5115bc	8541ab	4182bc	11076a	2627c	
Cyanidin-3-O-rhamnoside											C[C@@H]1O[C@@H](OC2=C([O+]=C3C=C(O)C=C(O)C3=C2)C2=CC(O)=C	InChI=1S/C21H20O10/c1-8-17(26)18(27)19(28)21(29-8)31-16-7-11-13(24)5-10(22)6-15(11)30-						

Peonidin-3-O- α -D-arabinopyranoside											(O)C=C2][C@H](O)[C@H](O)[C@H]1O COc(c(O)4)cc(cc4)c([o+1])c(OC(O3)C(O)C(O)C(O)3)cc(c(O)2)c(cc(O)c2)1	20(16)9-2-3-12(23)14(25)4-9/h2-8,17-19,21,26-28H,1H3,(H3-22,23,24,25)/p+1/t8-,17-,18+,19+,21-/m0/s1 InChI=1S/C21H20O10/c1-28-16-4-9(2-3-12(16)23)20-17(31-21-19(27)18(26)14(25)8-29-21)7-11-13(24)5-10(22)6-15(11)30-20/h2-7,14,18-19,21,25-27H,8H2,1H3,(H2-22,23,24)/p+1						
Derivative of malvidin-3-O- β -D-glucoside	24	475.120	6.4	Negative	***	475.1246	C ₂₃ H ₂₃ O ₁₁ ⁻	271.0600 119.0502 43.0667	271.0823 119.0502 43.0189	C ₁₂ H ₁₅ O ₇ ⁻ C ₈ H ₇ O ⁻ C ₂ H ₃ O ⁻	COC1(/C=C(/C=C(C(O)=1)/OC)/C3(C/O[C@H]2([C@H](O)[C@@H](O)[C@H](O)[C@@H](CO)O2))=C/C4(C(C(O)=C/C(O)=C/C(\O+)=3)=4)))	InChI=1S/C23H24O12/c1-31-14-3-9(4-15(32-2)18(14)27)22-16(7-11-12(26)5-10(25)6-13(11)33-22)34-23-21(30)20(29)19(28)17(8-24)35-23/h3-7,17,19-21,23-24,28-30H,8H2,1-2H3,(H2-25,26,27)/t17-,19-,20+,21-,23-/m1/s1	7912ab	10263ab	6502ab	25525a	3287b	
Rutin	25	609.139	4.72	Negative	610.1572	610.1534	C ₂₇ H ₃₀ O ₁₆	301.0327 337.1068	301.0357 337.0929	C ₁₅ H ₉ O ₇ ⁻ C ₁₆ H ₁₇ O ₈ ⁻	C[C@H]1([C@H](O)[C@@H](O)[C@@H](O1)OC[C@H]2([C@H](O)[C@H](O)[C@@H](O)[C@@H](O2)OC4(C(=O)C5(/C(O)=C/C(O)=C/C(O)C3(/C=C(C(O)=C/C(O)=C3)O))=4)=5)))	InChI=1S/C27H30O16/c1-8-17(32)20(35)22(37)26(40-8)39-7-15-18(33)21(36)23(38)27(42-15)43-25-19(34)16-13(31)5-10(28)6-14(16)41-24(25)9-2-3-11(29)12(30)4-9/h2-6,8,15,17-18,20-23,26-33,35-38H,7H2,1H3/t8-,15+,17-,18+,20+,21-,22+,23+,26+,27-/m0/s1	8856a	5131a	7060a	12720a	6178a	
Datiscin	26	593.143	5.6	Negative	***	594.1585	C ₂₇ H ₃₀ O ₁₅	285.0363 284.0271	285.0405 284.0332	C ₁₅ H ₉ O ₆ ⁻ C ₁₅ H ₈ O ₆ ²⁻	CC1C(C(C(C(O1)OCC2C(C(C(C(O2)O)C3=C(OC4=CC(=C(C=C4C3=O)O)O)C5=CC=CC=C5O)O)O)O)O)O	InChI=1S/C27H30O15/c1-9-17(31)20(34)22(36)26(39-9)38-8-15-18(32)21(35)23(37)27(41-15)42-25-19(33)16-13(30)6-10(28)7-14(16)40-24(25)11-4-2-3-5-12(11)29/h2-7,9,15,17-18,20-23,26-32,34-37H,8H2,1H3/t9-,15+,17-,18+,20+,21-,22+,23+,26+,27-/m0/s1	12415a	10612a	7922a	17802a	8287a	
Kaempferol-3-O-											C[C@@H]5(O[C@@H](OC[C@H]4(O[C@@H](OC2(C(C3	InChI=1S/C27H30O15/c1-9-17(31)20(34)22(36)26(39-9)38-8-15-						

Luteolin 7-o-neohesperidoside											<chem>O=C1C=CC(=O)OC1C(=O)OC2=CC(=O)C=C2</chem>	<p>23(36)21(34)18(8-28)41-27(25)39-11-5-14(31)19-15(32)7-16(40-17(19)6-11)10-2-3-12(29)13(30)4-10/h2-7,9,18,20-31,33-37H,8H2,1H3/9-,18+,20-,21+,22+,23-,24+,25+,26-,27+/m0/s1</p> <p>InChI=1S/C27H30O15/c28-8-17-20(32)22(34)24(36)26(41-17)38-9-18-21(33)23(35)25(37)27(42-18)39-12-5-13(30)19-14(31)7-15(40-16(19)6-12)10-1-3-11(29)4-2-10/h1-7,17-18,20-30,32-37H,8-9H2/t17-,18-,20-,21-,22+,23+,24-,25-,26-,27-/m1/s1</p> <p>InChI=1S/C27H30O15/c28-7-15-20(34)23(37)26(42-27-24(38)22(36)19(33)16(8-29)41-27)25(40-15)18-12(32)6-14-17(21(18)35)11(31)5-13(39-14)9-1-3-10(30)4-2-9/h1-6,15-16,19-20,22-30,32-38H,7-8H2/p-1/t15-,16-,19-,20-,22+,23+,24-,25+,26-,27+/m1/s1</p>
Apigenin-7-ogentiobioside											<chem>O=C1C=CC(=O)OC1C(=O)OC2=CC(=O)C=C2</chem>	<p>23(36)21(34)18(8-28)41-27(25)39-11-5-14(31)19-15(32)7-16(40-17(19)6-11)10-2-3-12(29)13(30)4-10/h2-7,9,18,20-31,33-37H,8H2,1H3/9-,18+,20-,21+,22+,23-,24+,25+,26-,27+/m0/s1</p> <p>InChI=1S/C27H30O15/c28-8-17-20(32)22(34)24(36)26(41-17)38-9-18-21(33)23(35)25(37)27(42-18)39-12-5-13(30)19-14(31)7-15(40-16(19)6-12)10-1-3-11(29)4-2-10/h1-7,17-18,20-30,32-37H,8-9H2/t17-,18-,20-,21-,22+,23+,24-,25-,26-,27-/m1/s1</p> <p>InChI=1S/C27H30O15/c28-7-15-20(34)23(37)26(42-27-24(38)22(36)19(33)16(8-29)41-27)25(40-15)18-12(32)6-14-17(21(18)35)11(31)5-13(39-14)9-1-3-10(30)4-2-9/h1-6,15-16,19-20,22-30,32-38H,7-8H2/p-1/t15-,16-,19-,20-,22+,23+,24-,25+,26-,27+/m1/s1</p>
Isovitexin 2-O-β-D-glucoside											<chem>O=C1C=CC(=O)OC1C(=O)OC2=CC(=O)C=C2</chem>	<p>23(36)21(34)18(8-28)41-27(25)39-11-5-14(31)19-15(32)7-16(40-17(19)6-11)10-2-3-12(29)13(30)4-10/h2-7,9,18,20-31,33-37H,8H2,1H3/9-,18+,20-,21+,22+,23-,24+,25+,26-,27+/m0/s1</p> <p>InChI=1S/C27H30O15/c28-7-15-20(34)23(37)26(42-27-24(38)22(36)19(33)16(8-29)41-27)25(40-15)18-12(32)6-14-17(21(18)35)11(31)5-13(39-14)9-1-3-10(30)4-2-9/h1-6,15-16,19-20,22-30,32-38H,7-8H2/p-1/t15-,16-,19-,20-,22+,23+,24-,25+,26-,27+/m1/s1</p> <p>InChI=1S/C27H30O15/c28-7-15-20(34)23(37)26(42-27-24(38)22(36)19(33)16(8-29)41-27)25(40-15)18-12(32)6-14-17(21(18)35)11(31)5-13(39-14)9-1-3-10(30)4-2-9/h1-6,15-16,19-20,22-30,32-38H,7-8H2/p-1/t15-,16-,19-,20-,22+,23+,24-,25+,26-,27+/m1/s1</p>
Isovitexin 7-ogalactoside											<chem>O=C1C=CC(=O)OC1C(=O)OC2=CC(=O)C=C2</chem>	<p>23(36)21(34)18(8-28)41-27(25)39-11-5-14(31)19-15(32)7-16(40-17(19)6-11)10-2-3-12(29)13(30)4-10/h2-7,9,18,20-31,33-37H,8H2,1H3/9-,18+,20-,21+,22+,23-,24+,25+,26-,27+/m0/s1</p> <p>InChI=1S/C27H30O15/c28-7-15-20(34)23(37)26(42-27-24(38)22(36)19(33)16(8-29)41-27)25(40-15)18-12(32)6-14-17(21(18)35)11(31)5-13(39-14)9-1-3-10(30)4-2-9/h1-6,15-16,19-20,22-30,32-38H,7-8H2/p-1/t15-,16-,19-,20-,22+,23+,24-,25+,26-,27+/m1/s1</p> <p>InChI=1S/C27H30O15/c28-7-15-20(34)23(37)26(42-27-24(38)22(36)19(33)16(8-29)41-27)25(40-15)18-12(32)6-14-17(21(18)35)11(31)5-13(39-14)9-1-3-10(30)4-2-9/h1-6,15-16,19-20,22-30,32-38H,7-8H2/p-1/t15-,16-,19-,20-,22+,23+,24-,25+,26-,27+/m1/s1</p>
Isovitexin 7-O-glucoside											<chem>O=C1C=CC(=O)OC1C(=O)OC2=CC(=O)C=C2</chem>	<p>23(36)21(34)18(8-28)41-27(25)39-11-5-14(31)19-15(32)7-16(40-17(19)6-11)10-2-3-12(29)13(30)4-10/h2-7,9,18,20-31,33-37H,8H2,1H3/9-,18+,20-,21+,22+,23-,24+,25+,26-,27+/m0/s1</p> <p>InChI=1S/C27H30O15/c28-7-15-20(34)23(37)26(42-27-24(38)22(36)19(33)16(8-29)41-27)25(40-15)18-12(32)6-14-17(21(18)35)11(31)5-13(39-14)9-1-3-10(30)4-2-9/h1-6,15-16,19-20,22-30,32-38H,7-8H2/p-1/t15-,16-,19-,20-,22+,23+,24-,25+,26-,27+/m1/s1</p> <p>InChI=1S/C27H30O15/c28-7-15-20(34)23(37)26(42-27-24(38)22(36)19(33)16(8-29)41-27)25(40-15)18-12(32)6-14-17(21(18)35)11(31)5-13(39-14)9-1-3-10(30)4-2-9/h1-6,15-16,19-20,22-30,32-38H,7-8H2/p-1/t15-,16-,19-,20-,22+,23+,24-,25+,26-,27+/m1/s1</p>

	Rhamnosylisoorientin										<chem>C@@H](O2)=C(/C=3)/O[C@@H]4(O[C@H](CO)[C@@H](O)[C@H](O)[C@@H](O4))O))=5)O)</chem> <chem>C[C@H]1([C@H](O)[C@@H](O)[C@@H](O)C(O1)O[C@H]5([C@H](C3(/C(/[O-])=C\C4(OC/C2(C=C(C(O)=C\C=2).O))=C/C(C(O)=3)=4)=O))O[C@H](CO)[C@@H](O)[C@H](O)5))</chem>	<p>12(39-13)9-1-3-10(30)4-2-9/h1-6,15-16,19-20,22-30,32-38H,7-8H2/t15-,16-,19-,20-,22+,23+,24-,25-,26+,27-/m1/s1</p> <p>InChI=1S/C27H30O15/e1-8-</p> <p>19(33)22(36)24(38)27(39-8)42-26-</p> <p>23(37)20(34)16(7-28)41-25(26)18-13(32)6-15-17(21(18)35)12(31)5-14(40-15)9-2-3-10(29)11(30)4-9/h2-6,8,16,19-20,22-30,32-38H,7H2,1H3/p-1/8-,16+,19-,20+,22+,23-,24+,25-,26+,27/m0/s1</p>													
	Vitexin 2-O-β-D-glucoside										<chem>C([C@@H]4([C@H]([C@@H]([C@H]([C@H](C2(/C3(/OC/C1(C=C/C(O)=C\C=1))=C/C(C(O)=C\C(C(O-))=2)=3)=O))O4)O[C@H]5([C@@H]([C@H]([C@H]([C@H](O5)CO)O)O))O))O</chem>	<p>InChI=1S/C27H30O15/e28-7-15-</p> <p>20(35)22(37)26(42-27-23(38)21(36)19(34)16(8-29)41-27)25(40-15)18-12(32)5-11(31)17-13(33)6-14(39-24(17)18)9-1-3-10(30)4-2-9/h1-6,15-16,19-23,25-32,34-38H,7-8H2/p-1/t15-,16-,19-,20-,21+,22+,23-,25+,26-,27+/m1/s1</p>													
	Vicenin-2										<chem>C(O)[C@@H]5([C@@H](O)[C@H](O)[C@@H](O)[C@H](C3(/C(/[O-])=C([C@@H]1(O)[C@H](CO)[C@@H](O)[C@H](O)[C@H](O)1))C4(OC(C2(C=C(C(O)=C\C(O)=3)=4))O5)</chem>	<p>InChI=1S/C27H30O15/e28-6-12-</p> <p>17(32)21(36)23(38)26(41-12)15-19(34)14-10(31)5-11(8-1-3-9(30)4-2-8)40-25(14)16(20(15)35)27-24(39)22(37)18(33)13(7-29)42-27/h1-5,12-13,17-18,21-24,26-30,32-39H,6-7H2/p-1/t12-,13-,17-,18-,21+,22+,23-,24-,26+,27+/m1/s1</p>													
Terpenoids	Ω-carboxymenaquinone-4	27	473.275	18.03	Negative	***	474.277	C ₃₁ H ₃₈ O ₄	205.0598	205.0539	C ₁₄ H ₂₁ O ⁻	<chem>CC(/CC/C=C(C)/CC/C=C(C)(C)=O)[O-])=C(CCC(C)=C/C1(C(=O)C2(C=C\C=C/C(C(=O)C(C)=1)=2))</chem>	<p>InChI=1S/C31H38O4/e1-21(11-8-12-22(2)15-10-16-24(4)31(34)35)13-9-14-23(3)19-20-26-25(5)29(32)27-17-6-7-18-28(27)30(26)33/h6-7,12-13,16-19H,8-11,14-15,20H2,1-</p>	1667c	14798a	14718a	12107ab	11427b							

								122.0848 102.0708	122.0727 102.0670	C ₈ H ₁₀ O ²⁺ C ₅ H ₁₀ O ₂ ²⁺	=C(C)C=C(C)C(C) C(=O)C[C@]23(C(C) (C)C[C@H](O)C[C @@](C)(O2)3)	29(2)19-14-20- 31(4)34(4)27-40- 37(7,8)24-33(4)26- 39(40,10)45-40/h11- 21,32-33,41-42,44H,23- 27H2,1-10H3/b12- 11+,17-13+,19-14+,28- 15+,29-16+,30-18+,31- 20+/t22?,32-,33- ,38+,39+,40-/m0/s1								
4,4'- diaponeuro- porenal											CC(C)=CCCC(C)= C/C=C/C(C)=C/C=C/ C/C=C(C)/C=C/C=C (C)/C=C/C(C)/C=C/ O	InChI=1S/C30H40O/c1- 25(2)14-10-17-28(5)20- 11-18-26(3)15-8-9-16- 27(4)19-12-21-29(6)22- 13-23-30(7)24-31/h8- 9,11-16,18- 24H,10,17H2,1-7H3/b9- 8+,18-11+,19-12+,22- 13+,26-15+,27-16+,28- 20+,29-21+,30-23+								
8'-apo-β- carotenal											CC(/C=C/C=C(C)/C =C/C1(C(CCCC(C) =1)(C)C))=C\C=C\C =C(C)\C=C\C=C(C)\ C=O	InChI=1S/C30H40O/c1- 24(13-8-9-14-25(2)16-11- 18-27(4)23-31)15-10-17- 26(3)20-21-29-28(5)19- 12-22-30(29,6)7/h8- 11,13-18,20- 21,23H,12,19,22H2,1- 7H3/b9-8+,15-10+,16- 11+,21-20+,24-13+,25- 14+,26-17+,27-18+								
apo-8'- lycopenal	33	417.303	15.71	Positive	***	416.3079	C ₃₀ H ₄₀ O	417.3035 337.3195 318.3003 263.2755 151.1026 67.0690	417.3152 337.3101 318.2912 263.2733 151.1117 67.0542	C ₃₀ H ₄₁ O ⁺ C ₂₂ H ₄₁ O ₂ ⁺ C ₂₂ H ₃₈ O ₂ ²⁺ C ₁₉ H ₃₅ ⁺ C ₁₀ H ₁₅ O ⁺ C ₅ H ₇ O ⁺	CC(C)=CCCC(C)= C/C=C/C(C)=C/C=C/ C/C(C)=C/C=C/C=C/ C(C)/C=C/C(C)/ C=O	InChI=1S/C30H40O/c1- 25(2)14-10-17-28(5)19- 12-21-29(6)20-11-18- 26(3)15-8-9-16-27(4)22- 13-23-30(7)24-31/h8- 9,11-16,18- 24H,10,17H2,1-7H3/b9- 8+,18-11+,21-12+,22- 13+,26-15+,27-16+,28- 19+,29-20+,30-23+	9744b	33258a	21828ab	22693ab	28704ab			
4-hydroxy- 4,4'-diapo- lycopene											CC(C)=C/C=C/C(C))=C/C=C/C(C)=C/C/ =C/C=C(C)/C=C/C=C/ C(C)/C=C/C=C(C)/ CO	InChI=1S/C30H40O/c1- 25(2)14-10-17-28(5)20- 11-18-26(3)15-8-9-16- 27(4)19-12-21-29(6)22- 13-23-30(7)24-31/h8- 23,31H,24H2,1-7H3/b9- 8+,17-10+,18-11+,19- 12+,22-13+,26-15+,27- 16+,28-20+,29-21+,30- 23+								

4,4'-diaponeurosporen-1-ol	34	418.316	15.39	Positive	***	418.3236	C ₃₀ H ₄₂ O	337.3508 263.2755 81.0022	337.3465 263.2733 81.0699	C ₂₃ H ₄₅ O ⁺ C ₁₉ H ₃₅ ⁺ C ₆ H ₉ ⁺	CC(C)=CCCC(\C)=C/C=C/C(\C)=C/C=C/C(C)/C=C/C(C)/C(O)	InChI=1S/C30H42O/c1-25(2)14-10-17-28(5)20-11-18-26(3)15-8-9-16-27(4)19-12-21-29(6)22-13-23-30(7)24-31/h8-9,11-16,18-23,31H,10,17,24H2,1-7H3/b9-8+,18-11+,19-12+,22-13+,26-15+,27-16+,28-20+,29-21+,30-23+	5383ab	7527ab	7157ab	12007a	696b			
8'-apo-β-carotenol											CC(/C=C/C=C(C)/C=C/C1(/C(C)(C)CC(C)/C=1)=C\C=C\C=C(C)/C=C\C=C(C)CO	InChI=1S/C30H42O/c1-24(13-8-9-14-25(2)16-11-18-27(4)23-31)15-10-17-26(3)20-21-29-28(5)19-12-22-30(29,6)7/h8-11,13-18,20-21,31H,12,19,22-23H2,1-7H3/b9-8+,15-10+,16-11+,21-20+,24-13+,25-14+,26-17+,27-18+								
Derivative	35	415.275	14.48	Positive	***	***	***	317.2824 316.2702 135.1185 99.0026 67.0690	317.2839 316.2755 135.1168 99.0804 67.0542	C ₂₂ H ₃₇ O ⁺ C ₂₂ H ₃₆ O ⁺ C ₁₀ H ₁₅ ⁺ C ₆ H ₁₁ O ⁺ C ₅ H ₇ O ⁺						3773b	6509b	7232ab	13061ab	17529a
4,4'-diaponeurosporen-1,1-diol	36	435.309	15.46	Positive	***	434.3185	C ₃₀ H ₄₂ O ₂	435.3114 337.3195 280.2745	435.3258 337.3101 280.2755	C ₃₀ H ₄₃ O ₂ ⁺ C ₂₂ H ₄₁ O ₂ ⁺ C ₁₉ H ₃₆ O ₂ ⁺	CC(C)=CCCC(\C)=C/C=C/C(\C)=C/C=C/C(C)/C=C/C(C)/C(O)O	InChI=1S/C30H42O2/c1-24(2)14-10-17-27(5)20-11-18-25(3)15-8-9-16-26(4)19-12-21-28(6)22-13-23-29(7)30(31)32/h8-9,11-16,18-23,30-32H,10,17H2,1-7H3/b9-8+,18-11+,19-12+,22-13+,25-15+,26-16+,27-20+,28-21+,29-23+	11247b	9062b	5276b	20988a	7055b			
All-trans-3,4-didehydrolycopene	37	534.429	13.65	Positive	***	534.4226	C ₄₀ H ₅₄	263.2755 245.2218 179.1751 81.0874	263.2733 245.2264 179.1794 81.0699	C ₁₉ H ₃₅ ⁺ C ₁₈ H ₂₉ ⁺ C ₁₃ H ₂₃ ⁺ C ₆ H ₉ ⁺	CC(C)=C/C=C/C(\C)=C/C=C/C(\C)=C/C=C/C(C)/C=C/C(C)/C=C/C(C)/C(C)C	InChI=1S/C40H54/c1-33(2)19-13-23-37(7)27-17-31-39(9)29-15-25-35(5)21-11-12-22-36(6)26-16-30-40(10)32-18-28-38(8)24-14-20-34(3)4/h11-13,15-23,25-32H,14,24H2,1-10H3/b12-11+,23-13+,25-15+,26-16+,31-17+,32-18+,35-21+,36-22+,37-27+,38-28+,39-29+,40-30+	20063bc	39634ab	21145bc	54265a	6482c			
	38	535.401	13.64	Positive	***	***	***	263.2755 245.2218 179.1751 81.0874	263.2733 245.2264 179.1794 81.0699	C ₁₉ H ₃₅ ⁺ C ₁₈ H ₂₉ ⁺ C ₁₃ H ₂₃ ⁺ C ₆ H ₉ ⁺			743b	1531b	5909b	19405a	3056b			
Derivative	39	520.418	12.75	Positive	***	***	***	453.3598 353.3291	453.3516 353.3203	C ₃₄ H ₄₅ ⁺ C ₂₆ H ₄₁ ⁺						12722a	9148a	16067a	25445a	7848a
2-hexaprenyl-6-methoxyphenol	40	532.416	12.75	Positive	***	532.4280	C ₃₇ H ₅₆ O ₂	353.3291 179.1751	353.3203 179.1794	C ₂₆ H ₄₁ ⁺ C ₁₁ H ₁₅ O ⁺	CC(C)=CCCC(\C)=C/CCC(\C)=C/CCC(\C)=C/CCC(\C)=C/C(C)/C=C/C(C)/C(O)OC	InChI=1S/C37H56O2/c1-29(2)15-9-16-30(3)17-10-18-31(4)19-11-20-32(5)21-12-22-33(6)23-13-24-34(7)27-28-35-25-14-26-36(39-	31548a	21610a	58841a	55124a	25543a			

odopin derivative								177.1642 119.0752	177.1638 119.0855	C ₁₃ H ₂₁ ⁺ C ₉ H ₁₁ ⁺	C@@H](C(C)(C)O) CC=C(C)C	19-31-43(10)33-35-44(45(11,12)46)34-32-37(3)4/h13-14,16-22,24-33,35,44,46H,15,23,34H2,1-12H3/b14-13+,24-16+,25-17+,29-18+,30-19+,35-33+,38-21+,39-22+,40-26+,41-27+,42-28+,43-31+/t44-/m0/s1					
	48	664.528	13.65	Positive	***	***	***	499.4002 129.1272 89.0703	499.3934 129.1274 89.0961	C ₃₆ H ₃₁ O ⁺ C ₁₃ H ₂₁ ⁺ C ₅ H ₁₃ O ⁺		71318b	620746a	486803a	476005a	488965a	
Bixin dimethyl ester	49	409.243	4.55	Positive	***	408.2301	C ₂₆ H ₃₂ O ₄	409.2423 387.2517 189.1635	409.2373 387.2530 189.1638	C ₂₆ H ₃₃ O ₄ ⁺ C ₂₄ H ₃₅ O ₄ ⁺ C ₁₄ H ₂₁ ⁺	CC(/C=C/C=C(C)/C=C/C(OC)=O)=C/C=C(C)C=C/C(C)C=C/C(OC)=O	InChI=1S/C26H32O4/c1-21(13-9-15-23(3)17-19-25(27)29-5)11-7-8-12-22(2)14-10-16-24(4)18-20-26(28)30-6/h7-20H,1-6H3/b8-7+,13-9+,14-10+,19-17+,20-18+,21-11+,22-12+,23-15+,24-16+	5379a	7332a	6579a	7819a	6025a
4,4'-diaplo-lycopene-4-oate	50	430.287	4.10	Positive	***	430.2872	C ₃₀ H ₃₈ O ₂	325.2162 251.2056 127.0729	325.2128 251.2006 127.0754	C ₂₂ H ₂₉ O ₂ ⁺ C ₁₆ H ₂₇ O ₂ ⁺ C ₇ H ₁₁ O ₂ ⁺	CC(C)=C/C=C/C(C/C)=C/C(OC)=C/C=C/C(C)C=C/C(C)/C([O-])=O	InChI=1S/C30H38O2/c1-24(2)14-10-17-27(5)20-11-18-25(3)15-8-9-16-26(4)19-12-21-28(6)22-13-23-29(7)30(3)32/h8-23H,1-7H3,(H,31,32)/p-1/b9-8+,17-10+,18-11+,19-12+,22-13+,25-15+,26-16+,27-20+,28-21+,29-23+	610b	6060a	2401ab	3341ab	1403ab
oat triterpenoid saponin	51	1093.58	8.88	Positive	***	1093.546	C ₅₅ H ₈₃ NO ₂₁	1023.509 1007.475 977.4956 116.1053	1023.516 1007.485 977.4952 116.1070	C ₅₂ H ₇₉ O ₂₀ ⁺ C ₅₁ H ₇₅ O ₂₀ ⁺ C ₄₇ H ₇₇ O ₂₁ ⁺ C ₆ H ₁₄ NO ⁺	C[C@]2(C=O)([C@@H](OC(=O)C1(\C\NC)=C/C=C=1))C[C@@]4(C)([C@@H](C2)[C@@]35(O[C@@H]3[C@H]6([C@](C)([C@](C)(C)[C@H](O)4)5)C[C@@H]%)10([C@@]([C]6)CC[C@H](O[C@@H]9)OC[C@@H](O[C@@H]7(O[C@H](CO)[C@@H](O)[C@H](O)[C@@H](O)7)(O)[C@@H](O)[C@H](O)[C@@H](O)8)(O)[C@@H](O)8))9))([C@](CO)(C%10))))	InChI=1S/C55H83NO21/c1-49(23-59)17-32-51(3,19-36(49)74-45(69)25-10-8-9-11-26(25)56-7)33(61)18-54(6)53(5)15-12-30-50(2,31(53)16-35-55(32,54)77-35)14-13-34(52(30,4)24-60)75-48-44(76-47-43(68)41(66)38(63)28(21-58)72-47)39(64)29(22-70-48)73-46-42(67)40(65)37(62)27(20-57)71-46/h8-11,23,27-44,46-48,56-58,60-68H,12-22,24H2,1-7H3/t27-,28-,29+,30-,31-,32-,33+,34+,35-,36+,37-,38-,39+,40+,41+,42-,43-,44-,46+,47+,48+,49+,50+,51+,52+,53-,54+,55-/m1/s1	334b	5430b	45088a	24175ab	18271ab

Oligosaccharides	Maltopentaose derivative	52	537.321	14.41	Negative	537.321	537.2036	C ₁₉ H ₃₇ O ₁₇ ⁻	282.089	282.0962	C ₁₀ H ₁₈ O ₉ ²⁻	C([C@H]5(O[C@H](O[C@@H]4([C@H](O[C@H](O[C@@H]1([C@H](O[C@@H]([C@H]1O)O)O[C@@H]2([C@H](O[C@@H]([C@H]2O)O)O[C@@H]3([C@H](OC([C@H](C[H]3O)O)O)CO)CO))([C@H]([C@H]4O)O)CO)[C@@H]([C@H]([C@@H]5O)O)O)O	InChI=1S/C30H52O26/c31-1-6-11(36)12(37)18(43)27(49-6)54-23-8(3-33)51-29(20(45)14(23)39)56-25-10(5-35)52-30(21(46)16(25)41)55-24-9(4-34)50-28(19(44)15(24)40)53-22-7(2-32)48-26(47)17(42)13(22)38/h6-47H,1-5H2/16-,7-,8-,9-,10-,11-,12+,13-,14-,15-,16-,17-,18-,19-,20-,21-,22-,23-,24-,25-,26?,27-,28-,29-,30-/m1/s1	7707bc	15163a	10442ab	13790ab	3479c
		53	699.371	12.92	Negative	699.371	699.3081	C ₃₀ H ₅₁ O ₁₈ ⁻	255.2312	255.2330	C ₁₆ H ₃₁ O ₂ ⁻		8278bc	10237b	8050bc	15818a	4038bc	
Organosulfates	Dodecyl sulfate	54	265.147	14.37	Negative	***	266.1552	C ₁₂ H ₂₆ O ₄ S	265.1483 185.1888 79.9586 96.9639	265.1479 185.1911 79.9579 96.9601	C ₁₂ H ₂₅ O ₄ S ⁻ C ₁₂ H ₂₅ O ₃ S ²⁻ HO ₄ S ⁻	CCCCCCCCCCCCOS([O-])(=O)=O	InChI=1S/C12H26O4S/c1-2-3-4-5-6-7-8-9-10-11-12-16-17(13,14)15/h2-12H2,1H3,(H,13,14,15)/p-1	664b	33273a	36116a	22823a	21551a
Galactolipids	1-16:0-2-18:1-digalactosyl-diacylglycerol											CCCCCCCC\C=C/CCCCCCCC(OC(COC2(OC(COC1(OC(CO)C(O)C(O)C(O)1))C(O)C(O)C(O)2))COC(=O)CCCCCCCCCCCCCCCC)=O	InChI=1S/C49H90O15/c1-3-5-7-9-11-13-15-17-18-20-22-24-26-28-30-32-41(52)62-37(34-59-40(51)31-29-27-25-23-21-19-16-14-12-10-8-6-4-2)35-60-48-47(58)45(56)43(54)39(64-48)36-61-49-46(57)44(55)42(53)38(33-50)63-49/h17-18,37-39,42-50,53-58H,3-16,19-36H2,1-2H3/b18-17-					
	1-18:1-2-16:0-digalactosyl-diacylglycerol	55	918.598	5.72	Positive	***	918.628	C ₄₉ H ₉₀ O ₁₅	755.5129 414.4031 163.0601	755.5151 414.4073 163.0965	C ₃₈ H ₇₅ O ₁₄ ⁺ C ₂₆ H ₅₄ O ₃ C ₇ H ₁₅ O ₄ ⁺	CCCCCCCC\C=C/CCCCCCCC(OC[C@H](CO[C@@H]2(O[C@H](CO[C@@H]1(O[C@H](CO)C[C@H](O)C[C@H](O)C[C@H](O)1)))[C@H](O)[C@H](O)[C@@H](O)2)OC(=O)CCCCCCCCCCCCC(=O)C	InChI=1S/C49H90O15/c1-3-5-7-9-11-13-15-17-18-20-21-23-25-27-29-31-40(51)59-34-37(62-41(52)32-30-28-26-24-22-19-16-14-12-10-8-6-4-2)35-60-48-47(58)45(56)43(54)39(64-48)36-61-49-46(57)44(55)42(53)38(33-50)63-49/h17-18,37-39,42-50,53-58H,3-16,19-36H2,1-2H3/b18-17/t37-38-,39-,42+,43+,44+,45+,46-,47-,48-,49-/m1/s1	424b	76927a	47256ab	35300ab	21583b

	1-20:2-2-18:3-monogalactosyldiacylglycerol	56	804.619	18.58	Positive	***	804.5751	C ₄₇ H ₈₀ O ₁₀	800.6283 745.6114 657.6029 147.0184 59.0198	800.6367 745.6188 657.6028 147.0652 59.0128	C ₄₆ H ₈₈ O ₁₀ ²⁺ C ₄₃ H ₈₅ O ₉ ⁺ C ₄₀ H ₈₁ O ₈ ⁺ C ₆ H ₁₁ O ₄ ⁺ C ₂ H ₃ O ₂ ⁺	CCCCC\C=C/C/C=C/C/CCCCCCCCC(OC[C@@H](OC(=O)CCCCCCC\C=C/C/C=C/C/C=CC)CO[C@@H]1(O[C@H](CO)[C@H](O)[C@H](O)[C@@H](O)1))=O	InChI=1S/C47H80O10/c1-3-5-7-9-11-13-15-17-19-20-22-23-25-27-29-31-33-35-42(49)54-38-40(39-55-47-46(53)45(52)44(51)41(37-48)57-47)56-43(50)36-34-32-30-28-26-24-21-18-16-14-12-10-8-6-4-2/h6,8,11-14,17-19,21,40-41,44-48,51-53H,3-5,7,9-10,15-16,20,22-39H2,1-2H3/b8-6-,13-11-,14-12-,19-17-,21-18-/t40-,41-,44+,45+,46-,47-/m1/s1	618b	1922b	5789ab	9560a	4055ab	
	Derivative of 1-20:2-2-18:3-monogalactosyldiacylglycerol	57	542.391	12.28	Positive	***	***	***	471.3304 147.0184 59.0198	471.3316 147.0652 59.0128	C ₂₆ H ₄₇ O ₇ ⁺ C ₄ H ₁₁ O ₄ ⁺ C ₂ H ₃ O ₂ ⁺			112645a	99893a	103646a	115405a	93762a	
Pterostes	(6S)-5-formyl-tetrahydrofolate tri-L-glutamate	58	732.253	16.64	Positive	***	731.2511	C ₃₀ H ₃₇ N ₉ O ₁₃	731.2555 377.1557 377.1424	731.2511 377.1576 377.1456	C ₃₀ H ₃₇ N ₉ O ₁₃ C ₁₈ H ₂₃ N ₃ O ₆ ²⁺ C ₁₇ H ₂₁ N ₄ O ₆ ⁺	C(NC1(C=C/C/C(=O)N[C@H](C(=O)O-])CCC(N[C@H](C(=O)O-])CCC(N[C@H](C(=O)O-])CCC([O-])CCC([O-])=O)=O)=O)=O=C(=1))[C@H]2(CNC3(/N=C(N)NC(=O)C(/N(C=O)2)=3))	InChI=1S/C30H37N9O13/c31-30-37-24-23(26(46)38-30)39(13-40)16(12-33-24)11-32-15-3-1-14(2-4-15)25(45)336-19(29(51)52)6-9-21(42)34-17(27(47)48)5-8-20(41)35-18(28(49)50)7-10-22(43)44/h1-4,13,16-19,32H,5-12H2,(H,34,42)(H,35,41)(H,36,45)(H,43,44)(H,47,48)(H,49,50)(H,51,52)(H4,31,33,37,38,46)/p-4/t16-,17-,18-,19-/m0/s1	9088a	10446a	14402a	16403a	9622a	
		59	731.239	16.61	Positive	***	731.2511	C ₃₀ H ₃₇ N ₉ O ₁₃	732.2498 731.2555 377.1557 377.1424	732.2584 731.2511 377.1576 377.1456	C ₃₀ H ₃₈ N ₉ O ₁₃ ⁺ C ₃₀ H ₃₇ N ₉ O ₁₃ C ₁₈ H ₂₃ N ₃ O ₆ ²⁺ C ₁₇ H ₂₁ N ₄ O ₆ ⁺				6853b	14731b	18909ab	20945ab	21331a
		60	733.230	16.62	Positive	***	731.2511	C ₃₀ H ₃₇ N ₉ O ₁₃								713b	3235b	10180a	11010a
	Derivative	61	378.109	16.58	Positive	***	***	***	377.1557 377.1424	377.1576 377.1456	C ₁₈ H ₂₃ N ₃ O ₆ ²⁺ C ₁₇ H ₂₁ N ₄ O ₆ ⁺			6305b	17283ab	28965a	24603a	22768a	
Phospholipids	1-octadec-11-enoyl-sn-glycerol 3-phosphate	62	435.246	17.4	Negative	***	436.2590	C ₂₁ H ₄₁ O ₇ P	286.2508 149.0009	286.2505 149.0034	C ₁₇ H ₃₄ O ₃ C ₄ H ₆ O ₄ P ⁻	CCCCC\C=C/C/CCC CCCCCCC(=O)OC[C@@H](O)COP(=O)([O-])[O-]	InChI=1S/C21H41O7P/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-21(23)27-18-20(22)19-28-29(24,25)26/h7-8,20,22H,2-6,9-19H2,1H3,(H2,24,25,26)/p-2/b8-7-/t20-/m1/s1 InChI=1S/C21H41O7P/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-21(23)27-18-20(22)19-28-29(24,25)26/h7-8,20,22H,2-6,9-19H2,1H3,(H2,24,25,26)/p-2/b8-7-/t20-/m1/s1 InChI=1S/C21H41O7P/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-21(23)27-18-20(22)19-28-29(24,25)26/h9-	719c	34393ab	35342ab	55098a	17958bc	
	CCCCC\C=C/C/CCC CCCCCCC(=O)OC[C@H](COP(=O)([O-])[O-])O																		
	CCCCC\C=C/C/CCC CCCCCCC(=O)OC[C@H](COP([O-])=O)O																		

	phosphoethanolamine (n-C14:1)							171.1368 145.1196	171.1380 145.1223	$C_{10}H_{16}O_2^+$ $C_8H_{17}O_2^+$	O)COP(OCC[NH3+]) ([O-])=O=O	12-13-19(22)25-16-18(21)17-27-28(23,24)26-15-14-20/h7-8,18,21H,2-6,9-17,20H2,1H3,(H,23,24)/t18-/m1/s1						
	2-acyl-sn-glycero-3-phosphoethanolamine (n-C14:1)										CCCCC/C=C/CCC CCC(=O)O[C@H](CO)COP(OCC[NH3 +])([O-])=O	InChI=1S/C19H38NO7P/ c1-2-3-4-5-6-7-8-9-10-11- 12-13-19(22)27-18(16- 21)17-26-28(23,24)25-15- 14-20/h7-8,18,21H,2-6,9- 17,20H2,1H3,(H,23,24)/b 8-7+/t18-/m1/s1						
	Sphingolipids (Sphingomyelin d18:1-C20:0)	82	759.653	17.57	Positive	***	759.6375	$C_{43}H_{88}N_2O_6P^+$	747.6422 184.1000 184.0646 18.0324	747.6375 184.0966 184.0733 18.0338	$C_{42}H_{88}N_2O_6P^+$ $C_5H_{17}N_2O_3P^{2+}$ $C_3H_{15}NO_4P^+$ NH_4^+	C(CCC)CCCCCCC CCC=CC(CNC(=O) CCCCCCCCCCCC CCCCCCC)COP(O CC[N+1](C)(C)C)(O-1])=O=O	InChI=1S/C43H87N2O6 P/c1-6-8-10-12-14-16-18- 20-21-22-23-25-27-29- 31-33-35-37-43(47)44- 41(40-51-52(48,49)50-39- 38-45(3,4)5)42(46)36-34- 32-30-28-26-24-19-17- 15-13-11-9-7- 2/h3,36,41-42,46H,6- 33,35,37-40H2,1-5H3,(H- ,44,47,48,49)/b36- 34+/t41-,42+/m1/s1	1489a	8921a	8782a	24048a	15776a
		83	759.631	17.75	Positive	***	759.6375	$C_{43}H_{88}N_2O_6P^+$	747.6422 184.1000 125.0303	747.6375 184.0966 125.0362	$C_{42}H_{88}N_2O_6P^+$ $C_5H_{17}N_2O_3P^{2+}$ $C_3H_{10}O_3P^+$			1922b	2462b	8169ab	12633a	13204a
	Derivative of sphingomyelin d18:1-C20:0	84	520.408	12.29	Positive	***	***	***	184.1000 125.0303	184.0966 125.0362	$C_5H_{17}N_2O_3P^{2+}$ $C_3H_{10}O_3P^+$	C(CCC)CCCCCCC CCC=CC(CNC(=O) CCCCCCCCCCCC CCCCCCC)COP(O CC[N+1](C)(C)C)(O-1])=O=O	InChI=1S/C43H87N2O6 P/c1-6-8-10-12-14-16-18- 20-21-22-23-25-27-29- 31-33-35-37-43(47)44- 41(40-51-52(48,49)50-39- 38-45(3,4)5)42(46)36-34- 32-30-28-26-24-19-17- 15-13-11-9-7- 2/h3,36,41-42,46H,6- 33,35,37-40H2,1-5H3,(H- ,44,47,48,49)/b36- 34+/t41-,42+/m1/s1	1061497 ab	877094b	1066434ab	1735373a	772368b
		85	518.781	12.53	Positive	***	***	***						3621b	3281b	5647ab	10499a	3443b
		86	532.417	12.52	Positive	***	***	***						6423a	5326a	11592a	9449a	6267a
		87	756.611	18.42	Positive	***	***	***						858b	2341b	6869b	10513b	60861a
		88	522.424	13.23	Positive	***	***	***						23692a	27609a	29343a	40339a	18989a
		89	496.406	12.84	Positive	***	***	***						44685a	41349a	50800a	64021a	41028a
		90	782.631	18.22	Positive	***	***	***						728a	4808a	22343a	53500a	37421a
		91	494.390	12.02	Positive	***	***	***						18078a	20637a	17885a	36683a	15746a
	92	516.320	11.71	Positive	***	***	***	5282a	7201a	8335a	9267a	7982a						
	93	758.643	18.13	Positive	***	***	***	1620b	25582a	48302a	44707a	49826a						
	Phosphatidylglyceride (22:6-22:6) linked with sugar	94	1081.51	6.9	Negative	***	1082.521	$C_{54}H_{83}O_{20}P$	1081.519 595.3708	1081.514 595.3769	$C_{54}H_{82}O_{20}P^+$ $C_{33}H_{56}O_7P^+$	C(C=CCC=CCC=C CC=CCC=CCC)C= CCCC(=O)OC(COP (O)(=O)OCC(O)CO COC(CCC=CCC=C CC=CCC=CCC=CC C=CCC)=O	-	12599a	37125a	30190a	35496a	25346a
	Phosphatidylglyceride linked sugar derivative	95	638.323	12.07	Negative	638.3175	638.3231	$C_{33}H_{51}O_{10}P^{2-}$	279.2312	279.2330	$C_{18}H_{31}O_2^-$		13013b	16267b	22012b	74612a	15189b	
Acylsugars	Sucrose 2-isovaleroyl-3-isodecanoylel-4-isobutanoate	96	669.392	17.54	Positive	***	650.3514	$C_{31}H_{54}O_{14}$	540.30261 33.0797 75.0442	540.3015 133.0859 75.0441	$C_{24}H_{46}NO_{12}^+$ $C_6H_{13}O_3^+$ $C_3H_7O_2^+$	CCC(C)C(=O)O[C @H]2([C@@H](O[C C@@1]([O][C@H](C O)[C@H]([C@H](O 1)O)CO)O[C@@H] ([C@@H]([C@@H](O (C)C)[C@@H]2OC (=O)CCCCC(C)C)CO)	InChI=1S/C31H54O14/c1 -7-19(6)29(39)43-26- 25(41-22(35)13-11-9-8- 10-12-17(2)3)24(42- 28(38)18(4)5)21(15- 33)40-30(26)45-31(16- 34)27(37)23(36)20(14- 32)44-31/h17-21,23- 27,30,32-34,36-37H,7- 16H2,1-6H3/t19,20-,21- ,23-,24-,25+,26-,27+,30-	8268b	50134a	38215a	30053a	33425a
	Sucrose 2-isovaleroyl-3-isodecanoylel-4-	97	455.271	14.50	Positive	***	451.2719	$C_{31}H_{59}NO_{14}^{2+}$	415.259 261.2427 133.0797 433.2463	415.2406 261.2427 133.0859 433.2431	$C_{17}H_{37}NO_{10}^{2+}$ $C_{15}H_{35}O_3^+$ $C_6H_{13}O_3^+$ $C_{21}H_{37}NO_9^+$		3213a	4242a	6168a	7360a	10256a	
		98	637.368	18.92	Positive	***	636.3357	$C_{30}H_{52}O_{14}$	637.3501	637.3430	$C_{30}H_{53}O_{14}^+$		4919b	27667a	20616a	15710ab	17364ab	

isobutanoate derivative	99	***	***	Positive	***	***	***	544.4005 478.3249 457.2729 433.2463 417.2798 387.2319	544.3964 478.3131 457.2796 433.2431 417.2847 387.2377	C ₃₀ H ₅₆ O ₈ ²⁺ C ₂₄ H ₄₆ O ₉ ²⁺ C ₂₄ H ₄₁ O ₈ ⁺ C ₂₁ H ₃₇ O ₉ ⁺ C ₂₂ H ₄₁ O ₇ ⁺ C ₂₀ H ₃₅ O ₇ ⁺	,31+/ml/s1	-	-	-	-	-
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Table S2: Identification of the set of metabolites found in untreated fruits. Treatments having different lowercase letters are significantly different using one-way ANOVA and Duncan test ($p \leq 0.05$)

	Compounds	Features	MS1 Feature	RT (min)	Ion mode	Monoisotopic mass			Fragments (MS/MS)			Smiles	InChI	Abundance in fruits from treated plants with chitosan (mg.mL ⁻¹)				
						Detected	Database	Formulae	Detected	Database	Formulae			0	0.25	0.50	0.75	1
Benzenesulfonates	4-(3-butylnonyl)-benzenesulfonic acid	100	339.201	17.11	Negative	***	***	***	119.0502 79.9586	119.0536 79.9579	C ₂ H ₁₁ OS ⁻ O ₃ S ²⁻	OS(C1=CC=C(CCC(CCCCC)CCCC)C=C1)(=O)=O	-	17618ab	21411a	6756ab	1394b	848b
	Derivative	101	311.168	14.95	Negative	***	***	***						24706ab	35491a	24741ab	6113b	655b
		102	340.199	17.17	Negative	***	***	***	120.0609	120.0687	C ₅ H ₁₂ OS			1147b	4788a	3363ab	612b	522b
		103	325.183	15.92	Negative	***	***	***	119.0536	119.0502	C ₅ H ₁₁ OS ⁻			8866a	4375b	2824bc	430c	305c
Benzoates	Benzoate	104	121.030	5.54	Negative	***	122.0368	C ₇ H ₆ O ₂	121.0251 77.0404	121.0295 77.0397	C ₇ H ₅ O ₂ ⁻ C ₆ H ₅ ⁻	C(C1\C=C/C=C\C=C=1))([O-])=O	InChI=1S/C7H6O2/c8-7(9)6-4-2-1-3-5-6/h1-5H,(H,8,9)/p-1	23846a	11406a	21388a	12073a	15834a
Phenylpropanoids	8-geranylumbelliferone	105	297.151	13.94	Negative	***	298.1569	C ₁₉ H ₂₂ O ₃	297.1510 183.1403 114.1410 113.1316	297.1496 183.1391 114.1409 113.1336	C ₁₉ H ₂₁ O ₃ ⁻ C ₁₁ H ₁₉ O ₂ ⁻ C ₈ H ₁₈ C ₈ H ₁₇ ⁻	CC(C)=CCCC(C)=C/CC1/(C2(OC(=O)\C=C/C(C=O)=C(C=O)=1)=2))	InChI=1S/C19H22O3/c1-13(2)5-4-6-14(3)7-10-16-17(20)11-8-15-9-12-18(21)22-19(15)16/h5,7-9,11-12,20H,4,6,10H2,1-3H3/b14-7+	9567ab	10753a	8458ab	2327ab	945b
	3-O-digalloyl-1,2,4,6-tetra-O-β-D-galloyl-glucose	106	1093.18	8.85	Positive	***	1092.129	C ₄₈ H ₃₆ O ₃₀	187.0958 183.0640 129.1276	187.0965 183.0652 129.1274	C ₉ H ₁₅ O ₄ ⁺ C ₉ H ₁₁ O ₄ ⁺ C ₈ H ₁₇ O ⁺	C(OC(C1\C=C(C(\O)=C(/C=1)\O)\O))=O)[C@H]6(O[C@H]([C@H](OC(C2\C=C(C(\O)=C(/C=2)\O)\O))=O)[C@@H](O	InChI=1S/C48H36O30/c49-20-1-14(2-21(50)33(20)60)42(66)72-13-32-39(75-44(68)16-5-24(53)35(62)25(54)6-16)40(76-46(70)19-11-	13127a	4264b	1671b	539b	481b

	Derivative	107	175.128	5.88	Positive	***	***	***	130.0983 101.0893 74.0329	130.1026 101.0961 74.0357	C ₇ H ₁₄ O ₂ ⁺ C ₆ H ₁₃ O ⁺ C ₃ H ₆ O ₂ ⁺	C(=O)C3(C=C(C(\O)=C(/C=3)\O)\OC(C4(C=C(C(C(O)=C(/C=4)\O)\O))=O)))(C@H)(OC(=O)C5(C=C(C(\O)=C(/C=5)\O)\O))6)OC(C7(C=C(C(C(O)=C(/C=7)\O)\O))=O)	30(59)38(65)31(12-19)73-43(67)15-3-22(51)34(61)23(52)4-15)41(77-45(69)17-7-26(55)36(63)27(56)8-17)48(74-32)78-47(71)18-9-28(57)37(64)29(58)10-18/h1-12,32,39-41,48-65H,13H2/t32-,39-40+,41-,48+/m1/s1	15688a	10910a	11487a	10604a	13598a	
Fatty acids	Linolenate conjugated	108	447.251	15.83	Negative	***	***	***	279.2312	279.2330	C ₁₈ H ₃₁ O ₂ ⁻	CC\C=C/C\C=C/C\C=C/C\CCCCCCCC(=O)[a glycerolipid]	-	11030a	1866b	1035b	324b	133b	
		109	534.465	18.41	Negative	***	***	***	255.2312 279.2331	255.2330 279.2330	C ₁₆ H ₃₁ O ₂ ⁻ C ₁₈ H ₃₁ O ₂ ⁻		7663a	6587ab	3794bc	4935abc	2494c		
	Decanoate											CCCCCCCCC(=O)[O-]	InChI=1S/C10H20O2/c1-2-3-4-5-6-7-8-9-10(11)12/h2-9H2,1H3,(H,11,12)/p-1						
	4-ethyl-octanoate	110	172.146	18.54	Positive	***	172.1463	C ₁₀ H ₁₉ O ₂	118.1089 118.0758 116.0783 117.0858	118.0994 118.0994 116.0837 117.0910	C ₆ H ₁₄ O ₂ C ₆ H ₁₄ O ₂ C ₆ H ₁₂ O ₂ C ₆ H ₁₂ O ₂ ⁺	CCCC(C)CCC([O-])=O	InChI=1S/C10H20O2/c1-3-5-6-9(4-2)7-8-10(11)12/h9H,3-8H2,1-2H3,(H,11,12)/p-1	35559a	4061b	2332b	2324b	2571b	
	8-methyl-nonanoate											CC(CCCCCC([O-])=O)C	InChI=1S/C10H20O2/c1-9(2)7-5-3-4-6-8-10(11)12/h9H,3-8H2,1-2H3,(H,11,12)/p-1						
Derivative	111	186.256	12.13	Positive	***	***	***	173.1578 116.0783	173.1536 116.0837	C ₁₀ H ₂₁ O ₂ ⁺ C ₆ H ₁₂ O ₂			78563a	72924ab	73111ab	71213ab	69721b		
Flavonoids	Phlorizin	112	436.027	10.64	Negative	***	436.1369	C ₂₁ H ₂₄ O ₁₀	229.0631 121.0251	229.0718 121.0295	C ₁₀ H ₁₃ O ₆ ⁻ C ₇ H ₅ O ₂ ⁺	C(O)[C@@H]3([C@@H](O)[C@H](O)[C@@H](O)[C@H](O)[C@@H](O)[C@H](O)C2(C(C(C(C1(C=C(C(O)=C(C=2)/[O-])O))O3)	InChI=1S/C21H24O10/c2-9-16-18(27)19(28)20(29)21(31-16)30-15-8-12(24)7-14(26)17(15)13(25)6-3-10-1-4-11(23)5-2-10/h1-2,4-5,7-8,16,18-24,26-29H,3,6,9H2/p-1/t16-,18-,19+,20-,21-/m1/s1	49182a	13295a	44026a	26821a	15101a	
	Pelargonidin											C3(\C(\C1(=[O+])C2(\C=C(C(C(\C=C1\O-])=2)/[O-]))O))=C/C=C(C(C=3)\O)	InChI=1S/C15H10O5/c16-9-3-1-8(2-4-9)15-13(19)7-11-12(18)5-10(17)6-14(11)20-15/h1-7H,(H3-,16,17,18,19)/p-1						
	Luteolindin	113	271.060	7.86	Negative	271.0612	271.0601	C ₁₅ H ₁₁ O ₅ ⁺	271.0600 270.0528 269.0455 120.0575	271.0612 270.0483 269.0418 120.0497	C ₁₅ H ₁₁ O ₅ ⁻ C ₁₅ H ₁₀ O ₆ C ₁₅ H ₉ O ₅ ⁻ C ₈ H ₈ O ₆	C3(/C=C(C(O)=C/C(\C1(=[O+])C2(\C=C(=C1)=C(/C=C(C=2)/O)\O))=3)/O)	InChI=1S/C15H10O5/c16-9-6-12(18)10-2-4-14(20-15(10)7-9)8-1-3-11(17)13(19)5-8/h1-7H,(H3-,16,17,18,19)/p+1	86617a	52655a	64953a	54899a	29866a	
	Cyanidin	114	287.056	7.07	Negative	287.0539	287.0550	C ₁₅ H ₁₁ O ₆ ⁺	287.0572 136.0478	287.0561 136.0524	C ₁₅ H ₁₁ O ₆ ⁻ C ₈ H ₈ O ₂	C3(\C(\C1(=[O+])C2(\C=C(C(C(\C=C	InChI=1S/C15H10O6/c16-8-4-11(18)9-6-	16141a	4134a	4556a	4681a	4260a	

												$1\backslash\text{O}-\text{]}=2)/[\text{O}-\text{]}\backslash\text{O})\text{)}=C/C(/O)=C(\backslash C=3)/O)$	13(20)15(21-14(9)5-8)7-1-2-10(17)12(19)3-7/h1-6H,(H4-,16,17,18,19,20)/p-1						
	Peonidin	115	301.071	8.11	Negative	301.0753	301.0707	$C_{16}H_{13}O_6^+$	301.0768 286.0441 150.0681 177.0168 161.0253 137.0584	301.0718 286.0488 150.0692 177.0193 161.0244 137.0608	$C_{16}H_{13}O_6^-$ $C_{15}H_{10}O_6^{2-}$ $C_9H_{10}O_2^{2-}$ $C_9H_5O_4^-$ $C_9H_5O_3^-$ $C_8H_9O_2^-$	$\text{COC}1(/C=C(\backslash C=C/C(/O)=1)/C2(C(/O-])=C^{\backslash}C3(\backslash C(\backslash O-])=C/C(/O)=C(\backslash O+]=2)=3)))$	InChI=1S/C16H12O6/c1-21-15-4-8(2-3-11(15)18)16-13(20)7-10-12(19)5-9(17)6-14(10)22-16/h2-7H,1H3,(H3-,17,18,19,20)/p-1	41085a	2177a	46029a	9172a	50416a	
	6,2'-dimethoxy-4',5'-methylenedioxy-isoflavone derivative	116	325.090	3.38	Negative	325.086	325.072	$C_{18}H_{13}O_6^-$	179.0370 135.0451	179.0350 135.0452	$C_9H_7O_4^-$ $C_8H_7O_2^-$	$\text{COC}4(/C=C1(C(/OC O1)=C^{\backslash}C(\backslash C2(\backslash C3(\backslash C=C(C(/O)=C^{\backslash}C(\backslash O^{\backslash}C=2)=3)/OC)=O)=4))$	InChI=1S/C18H14O7/c1-21-13-6-17-16(24-8-25-17)3-9(13)11-7-23-14-5-12(19)15(22-2)4-10(14)18(11)20/h3-7,19H,8H2,1-2H3	14401a	7310a	14626a	5704a	10476a	
Organosulfur compounds	2-mercaptobenzothiazole	117	165.979	7.52	Negative	***	166.9863	$C_7H_5NS_2$	165.9788 134.0074 102.0410 31.9732	165.9791 134.0070 102.0383 31.9758	$C_7H_4NS_2^-$ $C_7H_4NS^-$ $C_4H_8NS^-$ S^{2-}	$C1(=NC2(/C=C^{\backslash}C=C/C(/S1)=2))S$	InChI=1S/C7H5NS2/c9-7-8-5-3-1-2-4-6(5)10-7/h1-4H,(H,8,9)	246143a	134289b	126353b	150561ab	115219b	
	Derivative	118	166.980	7.25	Negative	***	166.9874	$C_7H_5NS_2^{2-}$	165.9788 134.0074 32.9820	165.9791 134.0070 32.9820	$C_7H_4NS_2^-$ $C_7H_4NS^-$ HS^-			8425a	3808b	2643b	3378b	2702b	
		119	167.975	7.51	Negative	***	166.9947	$C_7H_6NS_2^-$						23223a	10200b	10736b	9997b	8293b	
Terpenoids	8,8-dihydroxy-trans-neoxanthin	120	636.407	17.67	Positive	***	634.4233	$C_{40}H_{58}O_6$	242.2534 147.13671 41.0935	242.2599 147.1380 141.0910	$C_{16}H_{34}O_2^+$ $C_8H_{19}O_2^+$ $C_8H_{13}O_2^+$	$CC(/C=C/C=C(C)/C=C=C1([C@])O(C)C[C@@H](O)CC(C)(C)1)=C^{\backslash}C=C^{\backslash}C=C(C)(C)C=C^{\backslash}C=C(C)\backslash C(O)O[C@]23(C(C)(C)C[C@H](O)C[C@](C)(O2)3)$	InChI=1S/C40H58O6/c1-28(17-13-18-30(3)21-22-34-35(5,6)23-32(4)25-37(34,9)43)15-11-12-16-29(2)19-14-20-31(4)39(44,45)27-40-36(7,8)24-33(42)26-38(40,10)46-40/h11-21,32-33,41-45H,23-27H2,1-10H3/b12-11+,17-13+,19-14+,28-15+,29-16+,30-18+,31-20+/t22?,32-,33-,37+,38+,40-/m0/s1	11373a	12800a	6314a	6729a	4458a	
		121	635.450	17.62	Positive	***	634.4233	$C_{40}H_{58}O_6$						9143a	7235ab	4692ab	2916b	2844b	
	Oat triterpenoid saponin	122	1093.18	8.85	Positive	***	1093.546	$C_{55}H_{83}NO_{21}$	1023.509 1007.475 977.4956 116.1053	1023.516 1007.485 977.4952 116.1070	$C_{52}H_{79}O_{20}^+$ $C_{51}H_{75}O_{20}^+$ $C_{47}H_{71}O_{21}^+$ $C_6H_{14}NO^+$	$C[C@]2(C=O)([C@@H](OC(=O)C1(\backslash C\backslash NC)=C/C=C=1))C[C@@]4(C)([C@@H](C2)[C@@]35(O[C@]H)3[C@H]6([C@](C)([C@](C)(C)[C@H](O)4)5)C[C@]H)6%10([C@@]([C]6CC[C@H](O[C@@]H)9OC[C@H](O[C@@]H)7(O[C@H](CO)[C@@]H)(O)[C@H](O)[C@@]H)(O7))C@H]$	InChI=1S/C55H83NO21/c1-49(23-59)17-32-51(3,19-36(49)74-45(69)25-10-8-9-11-26(25)56-7)33(61)18-54(6)53(5)15-12-30-50(2,31(53)16-35-55(32,54)77-35)14-13-34(52(30,4)24-60)75-48-44(76-47-43(68)41(66)38(63)28(21-58)72-47)39(64)29(22-70-48)73-46-42(67)40(65)37(62)27(20-57)71-46/h8-11,23,27-	13127a	4264b	1671b	539b	481b	

											(O)[C@@H](O)[C@@H]8(O)[C@H](CO)[C@@H](O)[C@H](O)[C@@H](O)8)9)))[C@](CO)(C%10))))	44,46-48,56-58,60-68H,12-22,24H2,1-7H3/t27-,28-,29+,30-,31-,32-,33+,34+,35-,36+,37-,38-,39+,40+,41+,42-,43-,44-,46+,47+,48+,49+,50+,51+,52+,53-,54+,55-/m1/s1							
Phospholipids	1-deoxy-L-glycero-tetrol-4-phosphate	123	184.023	7.72	Positive	***	184.0137	C ₄ H ₉ O ₆ P	184.0117 167.0121 108.0284	184.0126 167.0104 108.0329	C ₄ H ₉ O ₆ P ²⁺ C ₄ H ₈ O ₅ P ⁺ C ₃ H ₇ O ₄ P ⁺	CC(=O)[C@H](O)COP(=O)([O-])[O-]	InChI=1S/C4H9O6P/c1-3(5)4(6)2-10-11(7,8)9/h4,6H,2H2,1H3,(H2,7,8,9)/p-2/t4-/m1/s1	25359a	18018ab	16001ab	17532ab	10623b	
	Phosphoenol-2-oxobutyrate											CCC(OP([O-])([O-])=O)C([O-])=O	InChI=1S/C4H9O6P/c1-2-3(4(5)6)10-11(7,8)9/h3H,2H2,1H3,(H,5,6)(H2,7,8,9)/p-3	46113a	26470a	46907a	32230a	22677a	
	Derivative	124	186.254	7.67	Positive	***	***	***											
	1-stearoyl-sn-glycero-3-phosphocholine	125	525.352	6.42	Positive	***	524.3711	C ₂₆ H ₅₅ NO ₇ P ⁺	273.1273 133.1223 111.0147 272.0947	273.1330 133.1177 111.0206 272.0894	C ₉ H ₂₄ NO ₆ P ²⁺ C ₃ H ₁₇ O ₂ ⁺ C ₂ H ₅ O ₃ P ⁺ C ₈ H ₁₉ NO ₇ P ⁺	CCCCCCCCCCCCCCCCCOC[C@H](O)COP(OCC[N+](C)(C)C(=O)[O-])=O	InChI=1S/C26H54NO7P/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-26(29)32-23-25(28)24-34-35(30,31)33-22-21-27(2,3)4/h25,28H,5-24H2,1-4H3/t25-/m1/s1	7292a	3062a	6199a	4892a	4975a	
	2-C22:0-α,ω-dicarbonyllysophosphatidic acid	126	524.319	12.78	Positive	***	524.3114	C ₂₅ H ₄₉ O ₉ P ⁺	209.0866 169.9964 171.0002	209.0937 169.9980 171.0053	C ₈ H ₁₈ O ₄ P ⁺ C ₃ H ₇ O ₆ P C ₃ H ₈ O ₆ P ⁺	C(OP([O-])(=O)[O-])[C@H](OC(=O)C)CCCCCCCCC(=O)CO	InChI=1S/C25H49O9P/c26-21-23(22-33-35(30,31)32)34-25(29)20-18-16-14-12-10-8-6-4-2-1-3-5-7-9-11-13-15-17-19-24(27)28/h23,26H,1-22H2,(H,27,28)(H2,30,31,32)/p-3/t23-/m1/s1	7147a	7053a	5935ab	3141bc	1841c	
Derivatives of phospholipids		127	759.702	17.91	Positive	***	***	***	184.0966	184.1000	C ₅ H ₁₇ N ₂ O ₃ P ²⁺			17083a	5925b	2964bc	315c	276c	
		128	758.686	18.21	Positive	***	***	***	125.0218	125.0231	C ₂ H ₈ NO ₃ P ²⁺			54429a	23702b	21322b	2960b	873b	
		129	438.107	10.63	Positive	***	***	***	272.0947	272.0894	C ₈ H ₁₉ NO ₇ P ⁺	-	-	17177a	5958a	19187a	11229a	7375a	
		130	435.324	15.29	Positive	***	***	***	98.0179	98.0122	CH ₇ O ₃ P ²⁺			14252a	12649a	6757a	4880a	3020a	
		131	539.431	13.33	Positive	***	***	***	125.0303	125.0362	C ₃ H ₁₀ O ₃ P ⁺			25166a	9032b	9223b	6800b	7769b	
(trans-, trans-)dioctadec-8-enoyl phosphatidate	132	701.505	17.96	Positive	***	700.5043	C ₃₉ H ₇₃ O ₈ P	369.2589 313.1800 181.0579 125.0218 98.0179	369.2636 313.1775 181.0624 125.0231 98.0122	C ₂₁ H ₃₇ O ₅ ⁺ C ₁₃ H ₃₀ O ₆ P ⁺ C ₆ H ₁₄ O ₄ P ⁺ C ₂ H ₈ NO ₃ P ²⁺ CH ₇ O ₃ P ²⁺	CCCCCCCCC/C=C/CCCCC(=O)OC[C@H](OC(CCCC/C=C/CCCCC(=O)COP([O-])(=O)[O-]))(=O)[O-]	InChI=1S/C39H73O8P/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-38(40)45-35-37(36-46-48(42,43)44)47-39(41)34-32-30-28-26-24-22-20-18-16-14-12-10-8-6-4-2/h19-22,37H,3-18,23-36H2,1-2H3,(H2,42,43,44)/p-2/b21-19+,22-20+/t37-/m1/s1	76804a	117402a	20278b	1115b	725b		
1-18:0-2-											CCCCCCCCCCCCCCCCCOC[C@H](OC(=O)CCCC	InChI=1S/C39H73O8P/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-							

	18:2-phosphatide												<chem>CC\C=C/C\C=C/C/CCCCCOP([O-])(=O)[O-]=O</chem>	<p>33-38(40)45-35-37(36-46-48(42,43)44)47-39(41)34-32-30-28-26-24-22-20-18-16-14-12-10-8-6-4-2/h12,14,18,20,37H,3-11,13,15-17,19,21-36H2,1-2H3,(H2,42,43,44)/p-2/b14-12-,20-18-/t37-/m1/s1</p>					
	1,2-bis-icis-vaccenoyl-phosphatide												<chem>CCCCC\C=C/C/CCCCCOC[C@@H](OC(=O)CCCCC\C=C/C/CCCCCOP([O-])(=O)[O-])=O</chem>	<p>InChI=1S/C39H73O8P/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-38(40)45-35-37(36-46-48(42,43)44)47-39(41)34-32-30-28-26-24-22-20-18-16-14-12-10-8-6-4-2/h13-16,37H,3-12,17-36H2,1-2H3,(H2,42,43,44)/p-2/b15-13-,16-14-/t37-/m1/s1</p>					
	Bisoleoyl phosphate												<chem>CCCCCCCC\C=C/C/CCCCCOC[C@@H](OC(=O)CCCCC\C=C/C/CCCCCOP([O-])(=O)[O-])=O</chem>	<p>InChI=1S/C39H73O8P/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-38(40)45-35-37(36-46-48(42,43)44)47-39(41)34-32-30-28-26-24-22-20-18-16-14-12-10-8-6-4-2/h17-20,37H,3-16,21-36H2,1-2H3,(H2,42,43,44)/p-2/b19-17-,20-18-/t37-/m1/s1</p>					

