

SUPPLEMENTARY MATERIALS

Figure S1. LC-MS/MS based Molecular Networking of compounds clustered together and detected in GSE and ATGSE. Blue and green nodes were identified in GSE and ATGSE extracts, respectively. Instead, red nodes represented compounds in common in the two extracts. The proanthocyanidin (PAC) cluster in the red box was the one identified and discussed in this article.

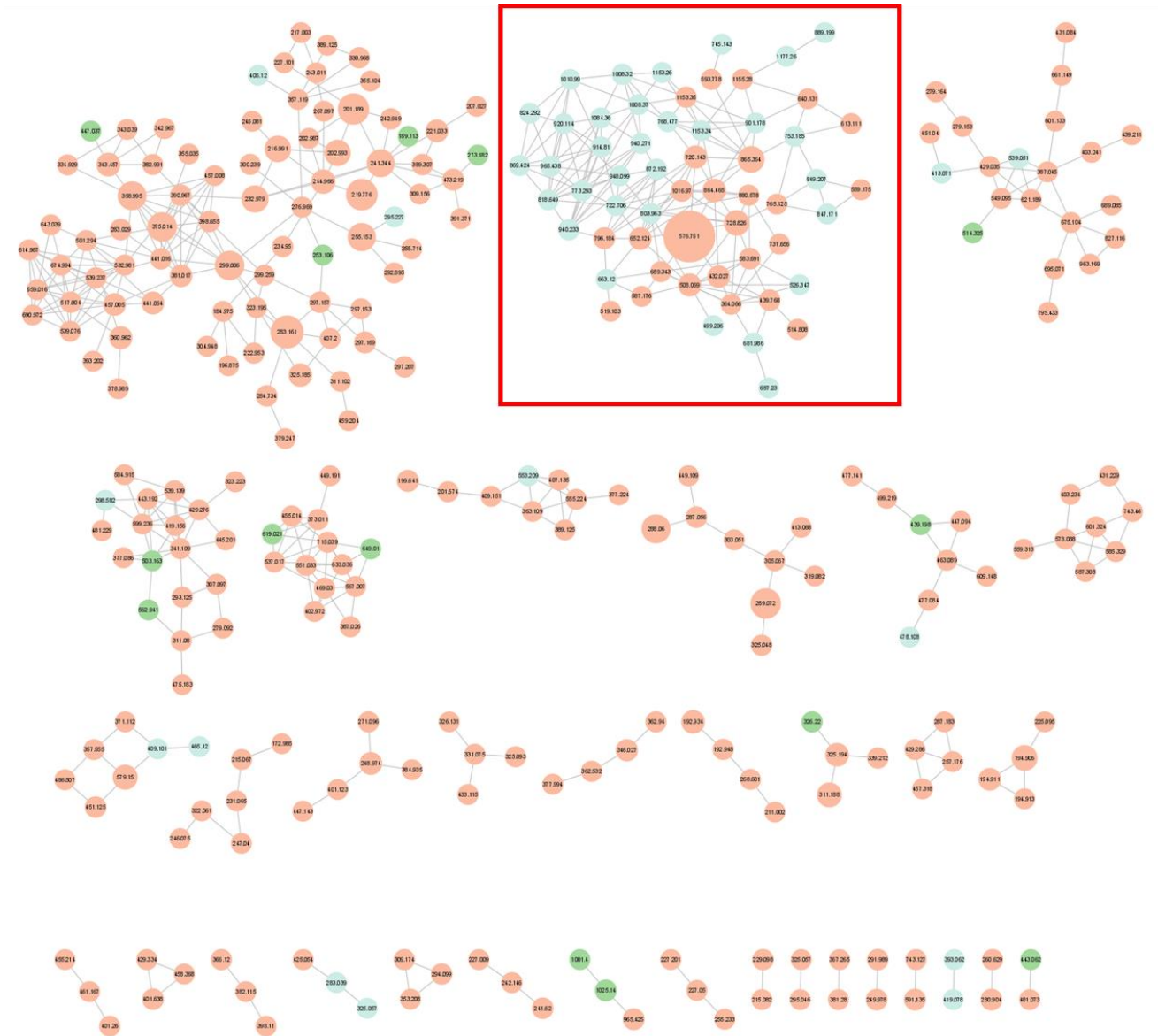


Table S1. UHPLC-ESI HRMS/MS analysis of proanthocyanidin (PAC) compounds present in GSE and ATGSE.

Compound	Charge	m/z	Formula	Error (ppm)	R _t	Fragment ions	Reference
Procyanidin trimer B-type isomer 1	[M-H] ⁻	865.2012	C ₄₅ H ₃₇ O ₁₈	4.559	1.33	695.1379 (-C ₈ H ₁₀ O ₄), 577.1376 (-C ₁₅ H ₁₂ O ₆), 451.1054 (-C ₂₁ H ₁₈ O ₉), 425.0871 (-C ₂₃ H ₂₀ O ₉), 407.0779 (-C ₂₃ H ₂₂ O ₁₀), 289.0716 (-C ₃₀ H ₂₄ O ₁₂), 287.0554 (-C ₃₀ H ₂₆ O ₁₂), 125.0231 (-C ₃₉ H ₃₁ O ₁₅)	[27]
Procyanidin trimer B-type isomer 2	[M-H] ⁻	865.2012	C ₄₅ H ₃₇ O ₁₈	3.789	1.85	739.1673 (-C ₆ H ₆ O ₃), 695.1412 (-C ₈ H ₁₀ O ₄), 577.1353 (-C ₁₅ H ₁₂ O ₆), 575.1199 (-C ₁₅ H ₁₄ O ₆), 451.1039 (-C ₂₁ H ₁₈ O ₉), 449.0876 (-C ₂₁ H ₂₀ O ₉), 425.0884 (-C ₂₃ H ₂₀ O ₉), 423.0718 (-C ₂₃ H ₂₂ O ₉), 407.0772 (-C ₂₃ H ₂₂ O ₁₀), 405.0613 (-C ₂₃ H ₂₄ O ₁₀), 289.0719 (-C ₃₀ H ₂₄ O ₁₂), 287.0562 (-C ₃₀ H ₂₆ O ₁₂), 125.0233 (-C ₃₉ H ₃₁ O ₁₅)	[27]
(Epi)gallocatechin	[M-H] ⁻	305.0667	C ₁₅ H ₁₃ O ₇	3805	2.13	287.0562 (-H ₂ O), 179.0342 (-C ₆ H ₆ O ₃), 137.0234 (-C ₈ H ₈ O ₄), 125.0233 (-C ₉ H ₈ O ₄)	[28]
(Epi)gallocatechin-(Epi)catechin isomer 1	[M-H] ⁻	593.1290	C ₃₀ H ₂₅ O ₁₃	0.005	2.57	467.0984 (-C ₆ H ₆ O ₃), 441.0836 (-C ₈ H ₈ O ₃), 425.0883 (-C ₈ H ₈ O ₄), 407.0775 (-C ₈ H ₁₀ O ₅), 305.0674 (-C ₁₅ H ₁₂ O ₆), 303.0512 (-C ₁₅ H ₁₄ O ₆), 289.0720 (-C ₁₅ H ₁₂ O ₇), 125.0233 (-C ₂₄ H ₂₀ O ₁₀)	[29]
(Epi)catechin-(Epi)gallocatechin isomer 1	[M-H] ⁻	593.1303	C ₃₀ H ₂₅ O ₁₃	2.264	3.03	467.0976 (-C ₆ H ₆ O ₃), 441.0839 (-C ₈ H ₈ O ₃), 423.0728 (-C ₈ H ₁₀ O ₄), 305.0668 (-C ₁₅ H ₁₂ O ₆), 289.0710 (-C ₁₅ H ₁₂ O ₇), 287.0563 (-C ₁₅ H ₁₄ O ₇), 269.0452 (-C ₁₅ H ₁₆ O ₈), 125.0234 (-C ₂₄ H ₂₀ O ₁₀)	[29]
Procyanidin trimer B-type isomer 3	[M-H] ⁻	865.2004	C ₄₅ H ₃₇ O ₁₈	2.939	3.15	713.1530 (-C ₈ H ₈ O ₃), 695.1426 (-C ₈ H ₁₀ O ₄), 577.1340 (-C ₁₅ H ₁₂ O ₆), 575.1193 (-C ₁₅ H ₁₄ O ₆), 451.1029 (-C ₂₁ H ₁₈ O ₉), 449.0889 (-C ₂₁ H ₂₀ O ₉), 425.0869 (-C ₂₃ H ₂₀ O ₉), 423.0710	[27]

						(-C ₂₃ H ₂₂ O ₉), 407.0778 (-C ₂₃ H ₂₂ O ₁₀), 405.0618 (-C ₂₃ H ₂₄ O ₁₀), 289.0722 (-C ₃₀ H ₂₄ O ₁₂), 287.0563 (-C ₃₀ H ₂₆ O ₁₂), 125.0233 (-C ₃₉ H ₃₁ O ₁₅)	
(Epi)gallocatechin- (Epi)gallocatechin B-type linkage isomer 1	[M-H] ⁻	609.1226	C ₃₀ H ₂₅ O ₁₄	-3.070	3.22	591.1151 (-H ₂ O) 423.0742 (-C ₈ H ₁₀ O ₅), 303.0509 (-C ₁₅ H ₁₄ O ₇), 285.0410 (-C ₁₅ H ₁₆ O ₈), 125.0232 (-C ₂₄ H ₂₀ O ₁₁)	[29]
Procyanidin pentamer B-type linkage isomer 1	[M-2H] ²⁻	720.1550	C ₇₅ H ₆₀ O ₃₀	-4.098	3.70	1315.2996 (-C ₆ H ₅ O ₃), 865.2018 (-C ₃₀ H ₂₃ O ₁₂), 577.1329 (-C ₄₅ H ₃₅ O ₁₈), 575.1212 (-C ₄₅ H ₃₇ O ₁₈), 449.0874 (-C ₅₁ H ₄₃ O ₂₁), 407.0786 (-C ₅₃ H ₄₅ O ₂₂), 289.0720 (-C ₆₀ H ₄₇ O ₂₄), 287.0568 (-C ₆₀ H ₄₉ O ₂₄)	[27]
(Epi)gallocatechin-(Epi)catechin isomer 2	[M-H] ⁻	593.1300	C ₃₀ H ₂₅ O ₁₃	1.741	3.78	467.0998 (-C ₆ H ₆ O ₃), 441.0807 (-C ₈ H ₈ O ₃), 425.0880 (-C ₈ H ₈ O ₄), 407.0772 (-C ₈ H ₁₀ O ₅), 305.0664 (-C ₁₅ H ₁₂ O ₆), 303.0513 (-C ₁₅ H ₁₄ O ₆), 289.0720 (-C ₁₅ H ₁₂ O ₇), 125.0233 (-C ₂₄ H ₂₀ O ₁₀)	[29]
(Epi)catechin O-hexoside isomer 1	[M-H] ⁻	451.1232	C ₂₁ H ₂₃ O ₁₁	-0.572	3.79	289.0719 (-C ₆ H ₁₀ O ₅), 205.0500 (-C ₁₀ H ₁₄ O ₇), 151.0391 (-C ₁₃ H ₁₆ O ₈), 125.0235 (-C ₁₅ H ₁₈ O ₈)	[30]
Procyanidin dimer B-type isomer 1	[M-H] ⁻	577.1354	C ₃₀ H ₂₅ O ₁₂	1.454	3.87	559.1238 (-H ₂ O), 451.1039 (-C ₆ H ₆ O ₃), 425.0880 (-C ₈ H ₈ O ₃), 407.0775 (-C ₈ H ₁₀ O ₄), 289.0719 (-C ₁₅ H ₁₂ O ₆), 287.0566 (-C ₁₅ H ₁₄ O ₆), 125.0233 (-C ₂₄ H ₂₀ O ₉)	[27]
Catechin	[M-H] ⁻	289.0718	C ₁₅ H ₁₃ O ₆	3.859	4.34	271.0615 (-H ₂ O), 245.0818 (-CO ₂), 179.0342 (-C ₆ H ₆ O ₂), 125.0233 (-C ₉ H ₈ O ₃)	[28]
(Epi)catechin-(Epi)catechin- (Epi)gallocatechin isomer 1	[M-H] ⁻	881.1949	C ₄₅ H ₃₇ O ₁₉	2.945	4.42	577.1337 (-C ₁₅ H ₁₂ O ₇), 451.1018 (-C ₂₁ H ₁₈ O ₁₉), 425.0869 (-C ₂₃ H ₂₀ O ₁₀), 407.0777 (-C ₂₃ H ₂₂ O ₁₁), 303.0509 (-C ₃₀ H ₂₆ O ₁₂), 289.0719 (-C ₃₀ H ₂₄ O ₁₃), 287.0565 (-C ₃₀ H ₂₆ O ₁₃), 125.0233 (-C ₃₉ H ₃₂ O ₁₆)	[29]

Procyanidin trimer B-type isomer 4	[M-H] ⁻	865.2007	C ₄₅ H ₃₇ O ₁₈	3.239	4.60	739.1646 (-C ₆ H ₆ O ₃), 713.1530 (-C ₈ H ₈ O ₃), 695.1365 (-C ₈ H ₁₀ O ₄), 577.1365 (-C ₁₅ H ₁₂ O ₆), 575.1216 (-C ₁₅ H ₁₄ O ₆), 451.1031 (-C ₂₁ H ₁₈ O ₉), 449.0869 (-C ₂₁ H ₂₀ O ₉), 425.0869 (-C ₂₃ H ₂₀ O ₉), 423.0721 (-C ₂₃ H ₂₂ O ₉), 407.0778 (-C ₂₃ H ₂₂ O ₁₀), 405.0604 (-C ₂₃ H ₂₄ O ₁₀), 289.0722 (-C ₃₀ H ₂₄ O ₁₂), 287.0564 (-C ₃₀ H ₂₆ O ₁₂), 125.0233 (-C ₃₉ H ₃₁ O ₁₅)	[27]
Procyanidin dimer A-type	[M-H] ⁻	575.1196	C ₃₀ H ₂₃ O ₁₂	2.134	4.62	557.1055 (-H ₂ O), 449.0876 (-C ₆ H ₆ O ₃), 423.0724 (-C ₈ H ₈ O ₃), 407.0773 (-C ₈ H ₈ O ₄), 289.0719 (-C ₁₅ H ₁₀ O ₆), 285.0406 (-C ₁₅ H ₁₄ O ₆), 125.0233 (-C ₂₄ H ₁₈ O ₉)	[31]
Procyanidin dimer B-type isomer 2	[M-H] ⁻	577.1356	C ₃₀ H ₂₅ O ₁₂	1.766	4.65	559.1265 (-H ₂ O), 451.1039 (-C ₆ H ₆ O ₃), 425.0881 (-C ₈ H ₈ O ₃), 407.0772 (-C ₈ H ₁₀ O ₄), 289.0718 (-C ₁₅ H ₁₂ O ₆), 287.0563 (-C ₁₅ H ₁₄ O ₆), 125.0233 (-C ₂₄ H ₂₀ O ₉)	[27]
(Epi)Gallocatechin-(Epi)catechin- (Epi)catechin AB-type linkage	[M-H] ⁻	879.1812	C ₄₅ H ₃₅ O ₁₉	4.505	4.66	709.1220 (-C ₈ H ₁₀ O ₄), 577.1347 (-C ₁₅ H ₁₀ O ₇), 451.1039 (-C ₂₁ H ₁₆ O ₁₀), 449.0872 (-C ₂₁ H ₁₈ O ₁₀), 465.0805 (-C ₂₁ H ₁₈ O ₉), 447.0722 (-C ₂₁ H ₂₀ O ₁₀), 421.0562 (-C ₂₃ H ₂₂ O ₁₀), 303.0510 (-C ₃₀ H ₂₄ O ₁₂), 289.0719 (-C ₃₀ H ₂₂ O ₁₃), 287.0563 (-C ₃₀ H ₂₄ O ₁₃), 178.9978 (-C ₃₆ H ₂₈ O ₁₅), 161.0237 (-C ₃₆ H ₃₀ O ₁₆), 125.0233 (-C ₃₉ H ₃₀ O ₁₆)	[32]
(Epi)catechin-(Epi)gallocatechin isomer 2	[M-H] ⁻	593.1315	C ₃₀ H ₂₅ O ₁₃	4.220	4.81	467.0982 (-C ₆ H ₆ O ₃), 441.0831 (-C ₈ H ₈ O ₃), 423.0721 (-C ₈ H ₁₀ O ₄), 305.0667 (-C ₁₅ H ₁₂ O ₆), 289.0725 (-C ₁₅ H ₁₂ O ₇), 287.0556 (-C ₁₅ H ₁₄ O ₇), 269.0456 (-C ₁₅ H ₁₆ O ₈), 125.0233 (-C ₂₄ H ₂₀ O ₁₀)	[29]
(Epi)gallocatechin- (Epi)gallocatechin B-type linkage isomer 2	[M-H] ⁻	609.1204	C ₃₀ H ₂₅ O ₁₄	2.960	4.92	591.1160 (-H ₂ O), 441.0835 (-C ₈ H ₈ O ₄), 423.0669 (-C ₈ H ₁₀ O ₅), 303.0516	[29]

						(-C ₁₅ H ₁₄ O ₇), 285.0410 (-C ₁₅ H ₁₆ O ₈), 125.0233 (-C ₂₄ H ₂₀ O ₁₁)	
(Epi)catechin-(Epi)catechin- (Epi)catechin-(Epi)gallocatechin B- type linkage	[M-2H] ²⁻	584.1285	C ₆₀ H ₄₈ O ₂₅	8.312	4.98	879.1683 (-C ₁₅ H ₁₃ O ₆), 591.1125 (-C ₃₀ H ₂₅ O ₁₂), 577.1360 (-C ₃₀ H ₂₃ O ₁₃), 575.1193 (-C ₃₀ H ₂₅ O ₁₃), 449.0891 (-C ₂₄ H ₁₇ O ₉), 407.0772 (-C ₂₆ H ₁₉ O ₁₀), 303.0508 (-C ₃₃ H ₂₃ O ₁₁), 289.0719 (-C ₃₃ H ₂₁ O ₁₂), 287.0563 (-C ₃₃ H ₂₃ O ₁₂), 285.0399 (-C ₃₃ H ₂₅ O ₁₂), 125.0233 (-C ₅₅ H ₄₃ O ₂₂)	[29]
Procyanidin trimer B-type isomer 5	[M-H] ⁻	865.1970	C ₄₅ H ₃₇ O ₁₈	-0.421	4.98	739.1647 (-C ₆ H ₆ O ₃), 713.1519 (-C ₈ H ₈ O ₃), 695.1406 (-C ₈ H ₁₀ O ₄), 577.1354 (-C ₁₅ H ₁₂ O ₆), 575.1194 (-C ₁₅ H ₁₄ O ₆), 559.1254 (-C ₁₅ H ₂₄ O ₇), 451.1035 (-C ₂₁ H ₁₈ O ₉), 449.0879 (-C ₂₁ H ₂₀ O ₉), 425.0880 (-C ₂₃ H ₂₀ O ₉), 423.0715 (-C ₂₃ H ₂₂ O ₉), 407.0770 (-C ₂₃ H ₂₂ O ₁₀), 405.0609 (-C ₂₃ H ₂₄ O ₁₀), 289.0719 (-C ₃₀ H ₂₄ O ₁₂), 287.0562 (-C ₃₀ H ₂₆ O ₁₂), 125.0233 (-C ₃₉ H ₃₁ O ₁₅)	[27]
(Epi)catechin-(Epi)catechin- (Epi)gallocatechin isomer 2	[M-H] ⁻	881.1962	C ₄₅ H ₃₇ O ₁₉	4.329	5.03	425.0887 (-C ₂₃ H ₂₀ O ₁₀), 407.0779 (-C ₂₃ H ₂₂ O ₁₁), 303.0500 (-C ₃₀ H ₂₆ O ₁₂), 289.0725 (-C ₃₀ H ₂₄ O ₁₃), 287.0551 (-C ₃₀ H ₂₆ O ₁₃), 125.0235 (-C ₃₉ H ₃₂ O ₁₆)	[29]
(Epi)Catechin-(Epi)Gallocatechin- (Epi)catechin AB-type linkage	[M-H] ⁻	879.1799	C ₄₅ H ₃₅ O ₁₉	3.225	5.30	727.1334 (-C ₈ H ₈ O ₃), 709.1212 (-C ₈ H ₁₀ O ₄), 591.1157 (-C ₁₅ H ₁₂ O ₆), 573.1049 (-C ₁₅ H ₁₃ O ₇), 441.0834 (-C ₂₃ H ₁₈ O ₉), 439.0663 (-C ₂₃ H ₂₀ O ₉), 423.0735 (-C ₂₃ H ₂₀ O ₁₀), 421.0562 (-C ₂₃ H ₂₂ O ₁₀), 403.0458 (-C ₂₃ H ₂₄ O ₁₁), 303.0507 (-C ₃₀ H ₂₄ O ₁₂), 289.0720 (-C ₃₀ H ₂₂ O ₁₃), 287.0559 (-C ₃₀ H ₂₄ O ₁₃), 178.9964 (-C ₃₆ H ₂₈ O ₁₅), 161.0234 (-C ₃₆ H ₃₀ O ₁₆), 125.0232 (-C ₃₉ H ₃₀ O ₁₆)	[32]
(Epi)catechin O-hexoside isomer 2	[M-H] ⁻	415.1259	C ₂₁ H ₂₃ O ₁₁	5.325	5.40	289.0719 (-C ₆ H ₁₀ O ₅), 271.0607	[30]

						(-C ₆ H ₁₂ O ₆), 205.0504 (-C ₁₀ H ₁₄ O ₇), 151.0386 (-C ₁₃ H ₁₆ O ₈), 125.0234 (-C ₁₅ H ₁₈ O ₈)	
(Epi)catechin-(Epi)gallocatechin A-type linkage isomer 1	[M-H] ⁻	591.1163	C ₃₀ H ₂₃ O ₁₃	4.169	5.41	573.1061 (-H ₂ O), 465.0833 (-C ₆ H ₆ O ₃), 441.0819 (-C ₈ H ₆ O ₃), 423.0730 (-C ₈ H ₈ O ₄), 303.0513 (-C ₁₅ H ₁₂ O ₆), 289.0731 (-C ₁₅ H ₁₀ O ₇), 285.0399 (-C ₁₅ H ₁₄ O ₁₇), 125.0233 (-C ₂₄ H ₁₈ O ₁₀)	[29]
Procyanidin trimer B-type isomer 6	[M-H] ⁻	865.2004	C ₄₅ H ₃₇ O ₁₈	2.939	5.55	739.1671 (-C ₆ H ₆ O ₃), 713.1512 (-C ₈ H ₈ O ₃), 695.1417 (-C ₈ H ₁₀ O ₄), 577.1357 (-C ₁₅ H ₁₂ O ₆), 575.1198 (-C ₁₅ H ₁₄ O ₆), 559.1269 (-C ₁₅ H ₂₄ O ₇), 451.1040 (-C ₂₁ H ₁₈ O ₉), 449.0880 (-C ₂₁ H ₂₀ O ₉), 425.0881 (-C ₂₃ H ₂₀ O ₉), 423.0717 (-C ₂₃ H ₂₂ O ₉), 407.0771 (-C ₂₃ H ₂₂ O ₁₀), 405.0614 (-C ₂₃ H ₂₄ O ₁₀), 289.0719 (-C ₃₀ H ₂₄ O ₁₂), 287.0562 (-C ₃₀ H ₂₆ O ₁₂), 125.0233 (-C ₃₉ H ₃₁ O ₁₅)	[27]
(Epi)afzelechin-(Epi)catechin linkage B-type isomer 1	[M-H] ⁻	561.1415	C ₃₀ H ₂₆ O ₁₁	1.126	5.94	435.1078 (-C ₆ H ₆ O ₃), 409.0907 (-C ₈ H ₈ O ₃), 407.0760 (-C ₈ H ₁₀ O ₃), 289.0719 (-C ₁₅ H ₁₂ O ₅), 273.0775 (-C ₁₅ H ₁₂ O ₆), 271.0619 (-C ₁₅ H ₁₁ O ₅), 125.0234 (-C ₂₄ H ₂₀ O ₈)	[33]
Procyanidin tetramer B-type isomer 1	[M-H] ⁻	1153.2637	C ₆₀ H ₄₉ O ₂₄	1.406	5.95	1027.2397 (-C ₇ H ₆ O ₃), 1001.2159 (-C ₈ H ₈ O ₃), 983.2043 (-C ₈ H ₁₀ O ₄), 865.2009 (- C ₁₅ H ₁₂ O ₆), 863.1835 (-C ₁₅ H ₁₄ O ₆), 739.1674 (-C ₂₁ H ₁₈ O ₉), 713.1521 (-C ₂₃ H ₂₀ O ₉), 577.1359 (-C ₃₀ H ₂₄ O ₁₂), 575.1198 (-C ₃₀ H ₂₆ O ₁₂), 451.1044 (-C ₃₆ H ₃₀ O ₁₅), 425.0883 (-C ₃₈ H ₃₂ O ₁₅), 407.0772 (-C ₃₈ H ₃₄ O ₁₆), 289.0719 (-C ₄₅ H ₃₆ O ₁₈), 287.0562 (-C ₄₅ H ₃₈ O ₁₈), 125.0233 (-C ₅₄ H ₄₄ O ₂₁)	[31,34]
(Epi)catechin-(Epi)catechin-(Epi)gallocatechin isomer 3	[M-H] ⁻	881.1945	C ₄₅ H ₃₇ O ₁₉	2.389	5.99	425.0885 (-C ₂₃ H ₂₀ O ₁₀), 407.0767	[29]

						(-C ₂₃ H ₂₂ O ₁₁), 303.0528 (-C ₃₀ H ₂₆ O ₁₂), 289.0726 (-C ₃₀ H ₂₄ O ₁₃), 287.0559 (-C ₃₀ H ₂₆ O ₁₃), 125.0234 (-C ₃₉ H ₃₂ O ₁₆)	
Procyanidin dimer B-type isomer 3	[M-H] ⁻	577.1356	C ₃₀ H ₂₅ O ₁₂	1.766	6.11	559.1255 (-H ₂ O), 451.1037 (-C ₆ H ₆ O ₃), 425.0881 (-C ₈ H ₈ O ₃), 407.0772 (-C ₈ H ₁₀ O ₄), 289.0719 (-C ₁₅ H ₁₂ O ₆), 287.0562 (-C ₁₅ H ₁₄ O ₆), 125.0233 (-C ₂₄ H ₂₀ O ₉)	[27]
Epicatechin	[M-H] ⁻	289.0718	C ₁₅ H ₁₃ O ₆	3.859	6.15	271.0610 (-H ₂ O), 245.0818 (-CO ₂), 179.0342 (-C ₆ H ₆ O ₂), 125.0233 (-C ₉ H ₈ O ₃)	[28]
(Epi)catechin O-hexoside isomer 3	[M-H] ⁻	451.1251	C ₂₁ H ₂₃ O ₁₁	3.618	6.26	289.0719 (-C ₆ H ₁₀ O ₅), 205.0505 (-C ₁₀ H ₁₄ O ₇), 151.0392 (-C ₁₃ H ₁₆ O ₈), 125.0233 (-C ₁₅ H ₁₈ O ₈)	[30]
Galloyl procyanidin tetramer B-type linkage isomer 1	[M-2H] ²⁻	652.1343	C ₆₇ H ₅₂ O ₂₈	3.946	6.26	1179.2426 (-C ₆ H ₅ O ₃), 1135.2598 (-C ₇ H ₅ O ₅), 865.1956 (-C ₂₂ H ₁₅ O ₁₀), 863.1781 (-C ₂₂ H ₁₇ O ₁₀), 577.1347 (-C ₃₇ H ₂₇ O ₁₆), 575.1189 (-C ₃₇ H ₂₉ O ₁₆), 449.0880 (-C ₄₃ H ₃₅ O ₁₉), 407.0766 (-C ₄₅ H ₃₇ O ₂₀), 289.0719 (-C ₅₂ H ₃₉ O ₂₂), 287.0562 (-C ₅₂ H ₄₁ O ₂₂), 269.0445 (-C ₅₂ H ₄₃ O ₂₃), 125.0233 (-C ₆₂ H ₄₇ O ₂₅)	[29]
Procyanidin trimer B-type isomer 7	[M-H] ⁻	865.1996	C ₄₅ H ₃₇ O ₁₈	2.209	6.32	739.1678 (-C ₆ H ₆ O ₃), 713.1520 (-C ₈ H ₈ O ₃), 695.1417 (-C ₈ H ₁₀ O ₄), 677.1328 (-C ₈ H ₁₂ O ₅), 577.1356 (-C ₁₅ H ₁₂ O ₆), 575.1199 (-C ₁₅ H ₁₄ O ₆), 559.1253 (-C ₁₅ H ₂₄ O ₇), 557.1091 (-C ₃₀ H ₂₆ O ₇), 451.1039 (-C ₂₁ H ₁₈ O ₉), 449.0878 (-C ₂₁ H ₂₀ O ₉), 425.0880 (-C ₂₃ H ₂₀ O ₉), 423.0719 (-C ₂₃ H ₂₂ O ₉), 407.0774 (-C ₂₃ H ₂₂ O ₁₀), 405.0611 (-C ₂₃ H ₂₄ O ₁₀), 289.0718 (-C ₃₀ H ₂₄ O ₁₂), 287.0562 (-C ₃₀ H ₂₆ O ₁₂), 125.0233 (-C ₃₉ H ₃₁ O ₁₅)	[27]
(Epi)afzelechin-(Epi)catechin-(Epi)catechin linkage B-type isomer 1	[M-H] ⁻	849.2068	C ₄₅ H ₃₇ O ₁₇	5.092	6.39	679.2460 (-C ₈ H ₁₀ O ₄), 561.1423 (-C ₁₅ H ₁₂ O ₆), 559.1234 (-C ₁₅ H ₁₄ O ₆), 435.1065 (-C ₂₄ H ₁₉ O ₈), 407.0779	[32]

						(-C ₂₃ H ₂₂ O ₉), 389.0660 (-C ₂₃ H ₂₄ O ₁₀), 289.0724 (-C ₃₀ H ₂₄ O ₁₁), 287.0559 (-C ₃₀ H ₂₆ O ₁₁), 273.0766 (-C ₃₀ H ₂₄ O ₁₂), 271.0618 (-C ₃₀ H ₂₆ O ₁₂), 125.0234 (-C ₃₉ H ₃₂ O ₁₄)	
(Epi)gallocatechin- (Epi)gallocatechin B-type linkage isomer 3	[M-H] ⁻	609.1262	C ₃₀ H ₂₅ O ₁₄	2.938	6.52	591.1136 (-H ₂ O), 423.0738 (-C ₈ H ₁₀ O ₅), 303.0513 (-C ₁₅ H ₁₄ O ₇), 285.0395 (-C ₁₅ H ₁₆ O ₈), 125.0236 (-C ₂₄ H ₂₀ O ₁₁)	[29]
O-Galloyl Procyanidin hexamer B- type linkage isomer 1	[M-2H] ²⁻	940.7023	C ₉₇ H ₇₆ O ₄₀	3.468	6.54	1305.2651 (-C ₃₀ H ₂₃ O ₁₂), 865.1904 (-C ₅₂ H ₃₉ O ₂₂), 864.1947 (-C ₇ H ₄ O ₄), 863.1749 (-C ₅₂ H ₄₁ O ₂₂), 796.1590 (-C ₁₅ H ₁₂ O ₆), 577.1367 (-C ₆₇ H ₅₁ O ₂₈), 576.1234 (-C ₃₇ H ₂₈ O ₁₆), 575.1205 (-C ₆₇ H ₅₃ O ₂₈), 449.0889 (-C ₇₃ H ₅₉ O ₃₁), 407.0765 (-C ₇₅ H ₆₁ O ₃₂), 289.0723 (-C ₈₂ H ₆₃ O ₃₄), 287.0561 (-C ₈₂ H ₆₅ O ₃₄), 269.0461 (-C ₈₂ H ₆₇ O ₃₅)	[29]
(Epi)catechin-(Epi)gallocatechin A- type linkage isomer 2	[M-H] ⁻	591.1140	C ₃₀ H ₂₃ O ₁₃	0.244	6.56	573.1031 (-H ₂ O), 465.0839 (-C ₆ H ₆ O ₃), 441.0826 (-C ₈ H ₆ O ₃), 423.0736 (-C ₈ H ₈ O ₄), 303.0515 (-C ₁₅ H ₁₂ O ₆), 289.0713 (-C ₁₅ H ₁₀ O ₇), 285.0403 (-C ₁₅ H ₁₄ O ₁₇), 125.0234 (-C ₂₄ H ₁₈ O ₁₀)	[29]
(Epi)catechin-(Epi)catechin O- hexoside B-type linkage	[M-H] ⁻	739.1827	C ₃₆ H ₃₅ O ₁₇	-6.418	6.61	587.1391 (-C ₈ H ₈ O ₃), 577.1337 (-C ₆ H ₁₀ O ₅), 451.1058 (-C ₁₂ H ₁₆ O ₈), 425.0865 (-C ₁₆ H ₁₈ O ₈), 407.0762 (-C ₂₄ H ₂₀ O ₉), 289.0721 (-C ₂₁ H ₂₂ O ₁₁), 287.0558 (-C ₂₁ H ₂₄ O ₁₁), 125.0233 (-C ₃₀ H ₃₀ O ₁₄)	[29]
Procyanidin pentamer B-type linkage isomer 2	[M-2H] ²⁻	720.1590	C ₇₅ H ₆₀ O ₃₀	1.498	6.65	1315.2932 (-C ₆ H ₅ O ₃), 1153.2604 (-C ₁₅ H ₁₁ O ₆), 1151.2479 (-C ₁₅ H ₁₃ O ₆), 865.2001 (-C ₃₀ H ₂₃ O ₁₂), 863.1839 (-C ₃₀ H ₂₅ O ₁₂), 577.1355 (-C ₄₅ H ₃₅ O ₁₈), 576.1245 (-C ₁₅ H ₁₂ O ₆), 575.1201 (-C ₄₅ H ₃₇ O ₁₈), 449.0882 (-C ₅₁ H ₄₃ O ₂₁), 407.0774 (-C ₅₃ H ₄₅ O ₂₂), 289.0719	[27]

Epigallocatechin gallate isomer 1	[M-H] ⁻	457.0777	C ₂₂ H ₁₇ O ₁₁	2.477	6.84	(-C ₆₀ H ₄₇ O ₂₄), 287.0562 (-C ₆₀ H ₄₉ O ₂₄), 269.0457 (-C ₆₀ H ₅₁ O ₂₅)	[28]
O-Galloyl-(Epi)catechin-(Epi)gallocatechin B-type linkage	[M-H] ⁻	745.1462	C ₃₇ H ₂₉ O ₁₇	8.393	6.86	305.0668 (-C ₇ H ₅ O ₄), 287.0567 (-C ₇ H ₇ O ₅), 169.0134 (-C ₁₅ H ₁₃ O ₆), 125.0234 (-C ₁₆ H ₁₃ O ₈)	[29]
						593.1268 (-C ₇ H ₄ O ₄), 575.1175 (-C ₇ H ₆ O ₅), 449.0873 (-C ₁₃ H ₁₂ O ₈), 441.0821 (-C ₁₅ H ₁₂ O ₇), 423.0722 (-C ₁₅ H ₁₄ O ₈), 405.0622 (-C ₁₅ H ₁₆ O ₉), 305.0672 (-C ₂₂ H ₁₆ O ₁₀), 289.0719 (-C ₂₂ H ₁₆ O ₁₁), 287.0568 (-C ₂₂ H ₁₈ O ₁₁), 271.0621 (-C ₂₂ H ₁₈ O ₁₂), 269.0453 (-C ₂₂ H ₂₀ O ₁₂), 169.0135 (-C ₂₀ H ₂₄ O ₁₂), 125.0233 (-C ₃₁ H ₂₄ O ₁₄)	
(Epi)afzelechin-(Epi)catechin linkage B-type isomer 2	[M-H] ⁻	561.1427	C ₃₀ H ₂₆ O ₁₁	6.348	6.96	435.1092 (-C ₆ H ₆ O ₃), 409.0923 (-C ₈ H ₈ O ₃), 289.0719 (-C ₁₅ H ₁₂ O ₅), 273.0771 (-C ₁₅ H ₁₂ O ₆), 125.0233 (-C ₂₄ H ₂₀ O ₈)	[33]
O-Galloyl-(Epi)catechin-(Epi)catechin-(Epi)catechin B-type linkage isomer 1	[M-H] ⁻	1017.2130	C ₅₂ H ₄₁ O ₂₂	4.299	7.02	891.1765 (-C ₆ H ₆ O ₃), 865.1951 (-C ₇ H ₄ O ₄), 739.1642 (-C ₁₃ H ₁₀ O ₇), 729.1482 (-C ₁₅ H ₁₂ O ₆), 727.1343 (-C ₁₅ H ₁₄ O ₆), 721.1598 (-C ₁₃ H ₁₂ O ₈), 577.1361 (-C ₂₂ H ₁₆ O ₁₀), 575.1200 (-C ₂₂ H ₁₈ O ₁₀), 559.1251 (-C ₂₂ H ₁₈ O ₁₁), 557.1102 (-C ₂₂ H ₂₀ O ₁₁), 541.1157 (-C ₂₂ H ₂₀ O ₁₂), 451.1063 (-C ₂₈ H ₂₂ O ₁₃), 433.0923 (-C ₂₈ H ₂₄ O ₁₄), 425.0894 (-C ₃₀ H ₂₄ O ₁₃), 423.0738 (-C ₃₀ H ₂₆ O ₁₃), 405.0738 (-C ₃₀ H ₂₈ O ₁₄), 387.0535 (-C ₃₀ H ₃₀ O ₁₅), 289.0721 (-C ₃₇ H ₂₈ O ₁₆), 287.0563 (-C ₃₇ H ₃₀ O ₁₆), 269.0451 (-C ₃₇ H ₃₂ O ₁₇), 169.0135 (-C ₄₅ H ₃₆ O ₁₇), 125.0233 (-C ₄₆ H ₃₆ O ₁₉)	[29]
Procyanidin pentamer B-type linkage isomer 3	[M-2H] ²⁻	720.1595	C ₇₅ H ₆₀ O ₃₀	2.164	7.03	1315.2858 (-C ₆ H ₅ O ₃), 1153.2686 (-C ₁₅ H ₁₁ O ₆), 1151.2473 (-C ₁₅ H ₁₃ O ₆), 865.1996 (-C ₃₀ H ₂₃ O ₁₂), 863.1844	[27]

						(-C ₃₀ H ₂₅ O ₁₂), 577.1355 (-C ₄₅ H ₃₅ O ₁₈), 576.1236 (-C ₁₅ H ₁₂ O ₆), 575.1198 (-C ₄₅ H ₃₇ O ₁₈), 449.0882 (-C ₅₁ H ₄₃ O ₂₁), 407.0775 (-C ₅₃ H ₄₅ O ₂₂), 289.0719 (-C ₆₀ H ₄₇ O ₂₄), 287.0563 (-C ₆₀ H ₄₉ O ₂₄), 269.0465 (-C ₆₀ H ₅₁ O ₂₅)	
Procyanidin octamer B-type linkage isomer 1	[M-2H] ²⁻	1153.2638	C ₁₂₀ H ₉₆ O ₄₈	2.568	7.09	865.2005 (-C ₇₅ H ₅₉ O ₃₀), 863.1827 (-C ₇₅ H ₆₁ O ₃₀), 577.1363 (-C ₉₀ H ₇₁ O ₃₆), 575.1202 (-C ₉₀ H ₇₃ O ₃₆), 449.0887 (-C ₉₆ H ₇₉ O ₃₉), 407.0785 (-C ₉₈ H ₈₁ O ₄₀), 289.0717 (-C ₁₀₅ H ₈₃ O ₄₂), 287.0562 (-C ₁₀₅ H ₈₅ O ₄₂)	[27]
(Epi)catechin-(Epi)catechin- (Epi)gallo catechin isomer 4	[M-H] ⁻	881.1956	C ₄₅ H ₃₇ O ₁₉	3.637	7.11	577.1344 (-C ₁₅ H ₁₂ O ₇), 425.0880 (-C ₂₃ H ₂₀ O ₁₀), 407.0766 (-C ₂₃ H ₂₂ O ₁₁), 303.0508 (-C ₃₀ H ₂₆ O ₁₂), 289.0721 (-C ₃₀ H ₂₄ O ₁₃), 287.0567 (-C ₃₀ H ₂₆ O ₁₃), 125.0234 (-C ₃₉ H ₃₂ O ₁₆)	[29]
O-Galloyl Procyanidin pentamer B- type linkage isomer 1	[M-2H] ²⁻	796.1651	C ₈₂ H ₅₄ O ₃₄	2.134	7.11	1303.2593 (-C ₁₅ H ₁₃ O ₆), 863.1856 (- C ₃₇ H ₂₉ O ₁₆), 652.1348 (-C ₁₅ H ₁₂ O ₆), 577.1374 (-C ₅₂ H ₃₉ O ₂₂), 576.1221 (-C ₂₂ H ₁₆ O ₁₀), 575.1192 (-C ₅₂ H ₄₁ O ₂₂), 449.0874 (- C ₅₈ H ₄₇ O ₂₅), 407.0775 (-C ₆₀ H ₄₉ O ₂₆), 289.0721 (-C ₆₇ H ₅₁ O ₂₈), 287.0565 (-C ₆₇ H ₅₃ O ₂₈), 269.0458 (-C ₆₇ H ₅₅ O ₂₉)	[29]
Procyanidin eptamer B-type linkage isomer 1	[M-2H] ²⁻	1008.7339	C ₁₀₅ H ₈₄ O ₄₂	8.593	7.14	865.2001 (-C ₆₀ H ₄₇ O ₂₄), 864.1851 (-C ₁₅ H ₁₂ O ₆), 863.1862 (-C ₆₀ H ₄₉ O ₂₄), 577.1368 (- C ₇₅ H ₅₉ O ₃₀), 576.1262 (-C ₄₅ H ₃₆ O ₁₈), 575.1204 (-C ₇₅ H ₆₁ O ₃₀), 449.0887 (-C ₈₁ H ₆₇ O ₃₃), 407.0781 (-C ₈₃ H ₆₉ O ₃₄), 289.0720 (- C ₉₀ H ₇₁ O ₃₆), 287.0563 (-C ₉₀ H ₇₃ O ₃₆)	[27]
Galloyl-(Epi)catechin-(Epi)catechin B-type linkage isomer 1	[M-H] ⁻	729.1472	C ₃₇ H ₂₉ O ₁₆	2.947	7.24	577.1361 (-C ₇ H ₄ O ₄), 559.1251 (-C ₇ H ₆ O ₅), 541.1135 (-C ₇ H ₈ O ₆), 451.1045 (-C ₁₃ H ₁₀ O ₇), 433.0930 (-C ₁₃ H ₁₂ O ₈), 425.0881 (-C ₁₅ H ₁₂ O ₇), 407.0774 (-C ₁₅ H ₁₄ O ₈), 289.0720 (-C ₂₂ H ₁₆ O ₁₀), 287.0563 (-C ₂₂ H ₁₈ O ₁₀), 269.0458 (-	[29]

						C ₂₂ H ₂₀ O ₁₁), 169.0134 (-C ₃₀ H ₂₄ O ₁₁), 125.0233 (-C ₃₁ H ₂₄ O ₁₃)	
(Epi)afzelechin	[M-H] ⁻	273.0771	C ₁₅ H ₁₃ O ₅	2.899	7.40	255.0660 (-H ₂ O), 179.0343 (-C ₆ H ₆ O), 151.0387 (-C ₇ H ₆ O ₂), 125.0236 (-C ₉ H ₈ O ₂), 93.0333 (-C ₉ H ₈ O ₄)	[27]
Procyanidin pentamer B-type linkage isomer 4	[M-2H] ²⁻	720.1589	C ₇₅ H ₆₀ O ₃₀	1.414	7.42	1315.2917 (-C ₆ H ₅ O ₃), 1153.2653 (-C ₁₅ H ₁₁ O ₆), 1151.2482 (-C ₁₅ H ₁₃ O ₆), 865.2023 (-C ₃₀ H ₂₃ O ₁₂), 863.1846 (-C ₃₀ H ₂₅ O ₁₂), 577.1354 (-C ₄₅ H ₃₅ O ₁₈), 576.1253 (-C ₁₅ H ₁₂ O ₆), 575.1204 (-C ₄₅ H ₃₇ O ₁₈), 449.0880 (-C ₅₁ H ₄₃ O ₂₁), 407.0773 (-C ₅₃ H ₄₅ O ₂₂), 289.0719 (-C ₆₀ H ₄₇ O ₂₄), 287.0563 (-C ₆₀ H ₄₉ O ₂₄), 269.0446 (-C ₆₀ H ₅₁ O ₂₅)	[27]
(Epi)catechin-(Epi)catechin-(Epi)catechin-(Epi)catechin-(Epi)gallocatechin B-type linkage isomer 1	[M-2H] ²⁻	872.1936	C ₉₀ H ₇₂ O ₃₇	7.484	7.56	879.1846 (-C ₄₅ H ₃₇ O ₁₈), 865.1959 (-C ₄₅ H ₃₅ O ₁₉), 863.1832 (-C ₄₅ H ₃₇ O ₁₉), 577.1350 (-C ₆₀ H ₄₇ O ₂₅), 576.1230 (-C ₃₀ H ₂₂ O ₁₃), 575.1196 (-C ₆₀ H ₄₉ O ₂₅), 449.0880 (-C ₆₆ H ₅₅ O ₂₈), 407.0758 (-C ₆₈ H ₅₇ O ₂₉), 303.0506 (-C ₇₅ H ₆₁ O ₃₀), 289.0721 (-C ₇₅ H ₅₉ O ₃₁), 287.0564 (-C ₇₅ H ₆₁ O ₃₁), 125.0234 (-C ₈₅ H ₆₇ O ₃₄)	[29]
(Epi)afzelechin-(Epi)catechin linkage B-type isomer 3	[M-H] ⁻	561.1382	C ₃₀ H ₂₆ O ₁₁	4.907	7.57	435.1098 (-C ₆ H ₆ O ₃), 425.0867 (-C ₈ H ₉ O ₂), 407.0768 (-C ₈ H ₁₀ O ₃), 289.0721 (-C ₁₅ H ₁₂ O ₅), 273.0775 (-C ₁₅ H ₁₂ O ₆), 271.0616 (-C ₁₅ H ₁₁ O ₅), 125.0234 (-C ₂₄ H ₂₀ O ₈)	[33]
(Epi)catechin-(Epi)gallocatechin A-type linkage isomer 3	[M-H] ⁻	591.1144	C ₃₀ H ₂₃ O ₁₃	0.870	7.71	573.1004 (-H ₂ O), 465.0847 (-C ₆ H ₆ O ₃), 441.0826 (-C ₈ H ₆ O ₃), 423.0701 (-C ₈ H ₈ O ₄), 303.0515 (-C ₁₅ H ₁₂ O ₆), 289.0717 (-C ₁₅ H ₁₀ O ₇), 285.0403 (-C ₁₅ H ₁₄ O ₁₇), 125.0234 (-C ₂₄ H ₁₈ O ₁₀)	[29]
(Epi)catechin-(Epi)catechin-(Epi)gallocatechin ABB linkage isomer 1	[M-H] ⁻	879.1793	C ₄₅ H ₃₅ O ₁₉	2.282	7.83	753.1492 (-C ₆ H ₆ O ₃), 727.1321 (-C ₈ H ₈ O ₃), 709.1210 (-C ₈ H ₁₀ O ₄), 591.1136 (-C ₁₅ H ₁₂ O ₆), 577.1367 (-C ₁₅ H ₁₀ O ₇), 575.1226 (-C ₁₅ H ₁₂ O ₇), 573.1046 (-C ₁₅ H ₁₄ O ₇), 555.0909 (-C ₁₅ H ₁₆ O ₈), 465.0786 (-C ₂₁ H ₁₈ O ₉), 441.0829 (-C ₂₃ H ₁₈ O ₉), 423.0731 (-C ₂₃ H ₂₀ O ₁₀), 413.0861 (-	[29]

Procyanidin trimer B-type isomer 8	[M-H] ⁻	865.1998	C ₄₅ H ₃₇ O ₁₈	1.349	7.85	C ₂₄ H ₁₈ O ₁₀), 289.0718 (-C ₃₀ H ₂₂ O ₁₃), 287.0563 (-C ₃₀ H ₂₄ O ₁₃), 125.0233 (-C ₃₉ H ₃₀ O ₁₆) 739.1682 (-C ₆ H ₆ O ₃), 713.1520 (-C ₈ H ₈ O ₃), 695.1414 (-C ₈ H ₁₀ O ₄), 677.1316 (-C ₈ H ₁₂ O ₅), 577.1356 (-C ₁₅ H ₁₂ O ₆), 575.1200 (-C ₁₅ H ₁₄ O ₆), 559.1235 (-C ₁₅ H ₂₄ O ₇), 557.1100 (-C ₃₀ H ₂₆ O ₇), 451.1039 (-C ₂₁ H ₁₈ O ₉), 449.0879 (-C ₂₁ H ₂₀ O ₉), 425.0881 (-C ₂₃ H ₂₀ O ₉), 423.0721 (-C ₂₃ H ₂₂ O ₉), 407.0773 (-C ₂₃ H ₂₂ O ₁₀), 405.0612 (-C ₂₃ H ₂₄ O ₁₀), 289.0719 (-C ₃₀ H ₂₄ O ₁₂), 287.0562 (-C ₃₀ H ₂₆ O ₁₂), 125.0233 (-C ₃₉ H ₃₁ O ₁₅)	[27]
O-Galloyl-(Epi)catechin-(Epi)catechin B-type linkage isomer 2	[M-H] ⁻	1017.2077	C ₅₂ H ₄₁ O ₂₂	-1.226	7.87	891.1791 (-C ₆ H ₆ O ₃), 729.1473 (-C ₁₅ H ₁₂ O ₆), 577.1353 (-C ₂₂ H ₁₆ O ₁₀), 575.1180 (-C ₂₂ H ₁₈ O ₁₀), 559.1224 (-C ₂₂ H ₁₈ O ₁₁), 451.1049 (-C ₂₈ H ₂₂ O ₁₃), 425.0902 (-C ₃₀ H ₂₄ O ₁₃), 423.0724 (-C ₃₀ H ₂₆ O ₁₃), 407.0767 (-C ₃₀ H ₂₆ O ₁₄), 405.0604 (-C ₃₀ H ₂₈ O ₁₄), 289.0725 (-C ₃₇ H ₂₈ O ₁₆), 287.0563 (-C ₃₇ H ₃₀ O ₁₆), 269.0446 (-C ₃₇ H ₃₂ O ₁₇), 169.0136 (-C ₄₅ H ₃₆ O ₁₇), 125.0234 (-C ₄₆ H ₃₆ O ₁₉)	[29]
O-Galloyl Procyanidin pentamer B-type linkage isomer 2	[M-2H] ²⁻	796.1649	C ₈₂ H ₅₄ O ₃₄	1.833	7.89	865.1914 (-C ₃₇ H ₂₇ O ₁₆), 863.1806 (-C ₃₇ H ₂₉ O ₁₆), 652.1351 (-C ₁₅ H ₁₂ O ₆), 577.1359 (-C ₅₂ H ₃₉ O ₂₂), 575.1196 (-C ₅₂ H ₄₁ O ₂₂), 449.0878 (-C ₅₈ H ₄₇ O ₂₅), 407.0773 (-C ₆₀ H ₄₉ O ₂₆), 289.0720 (-C ₆₇ H ₅₁ O ₂₈), 287.0562 (-C ₆₇ H ₅₃ O ₂₈), 269.0454 (-C ₆₇ H ₅₅ O ₂₉)	[29]
O-Galloyl Procyanidin tetramer B-type linkage	[M-H] ⁻	1305.2733	C ₆₇ H ₅₃ O ₂₈	0.754	7.90	1153.2560 (-C ₇ H ₄ O ₄), 1017.2159 (-C ₁₅ H ₁₂ O ₆), 865.1931 (-C ₂₂ H ₁₆ O ₁₀), 863.1788 (-C ₂₂ H ₁₈ O ₁₀), 739.1690 (-C ₂₈ H ₂₂ O ₁₃), 729.1462 (-C ₃₀ H ₂₄ O ₁₂), 727.1279 (-C ₃₀ H ₂₆ O ₁₂), 713.1484 (-C ₃₀ H ₂₄ O ₁₃), 695.1437 (-C ₃₀ H ₂₆ O ₁₄), 577.1382 (-C ₃₇ H ₂₈ O ₁₆), 575.1196 (-C ₃₇ H ₃₀ O ₁₆), 451.1048 (-C ₄₃ H ₃₄ O ₁₉), 449.0887 (-C ₄₃ H ₃₆ O ₁₉), 439.0651 (-C ₄₅ H ₃₈ O ₁₉), 425.0886 (-C ₄₅ H ₃₆ O ₁₉),	[29]

						423.0718 (-C ₄₅ H ₃₈ O ₁₉), 407.0782 (-C ₄₅ H ₃₈ O ₂₀), 405.0635 (-C ₄₅ H ₄₀ O ₂₀), 289.0726 (-C ₅₂ H ₄₀ O ₂₂), 287.0563 (-C ₅₂ H ₄₂ O ₂₂), 269.0460 (-C ₅₂ H ₄₄ O ₂₃), 125.0234 (-C ₆₁ H ₄₈ O ₂₅)	
Epigallocatechin gallate isomer 2	[M-H] ⁻	457.0771	C ₂₂ H ₁₇ O ₁₁	1.208	7.98	305.0671 (-C ₇ H ₅ O ₄), 287.0563 (-C ₇ H ₇ O ₅), 169.0134 (-C ₁₅ H ₁₃ O ₆), 125.0233 (-C ₁₆ H ₁₃ O ₈)	[28]
Galloyl procyanidin tetramer B-type linkage isomer 2	[M-2H] ²⁻	652.1336	C ₆₇ H ₅₂ O ₂₈	2.918	8.01	1179.2415 (-C ₆ H ₅ O ₃), 865.2000 (-C ₂₂ H ₁₅ O ₁₀), 863.1835 (-C ₂₂ H ₁₇ O ₁₀), 577.1359 (-C ₃₇ H ₂₇ O ₁₆), 575.1201 (-C ₃₇ H ₂₉ O ₁₆), 449.0881 (-C ₄₃ H ₃₅ O ₁₉), 407.0772 (-C ₄₅ H ₃₇ O ₂₀), 289.0718 (-C ₅₂ H ₃₉ O ₂₂), 287.0562 (-C ₅₂ H ₄₁ O ₂₂), 269.0445 (-C ₅₂ H ₄₃ O ₂₃), 125.0233 (-C ₆₂ H ₄₇ O ₂₅)	[29]
Procyanidin eptamer B-type linkage isomer 2	[M-2H] ²⁻	1008.7310	C ₁₀₅ H ₈₄ O ₄₂	5.688	8.06	865.1953 (-C ₆₀ H ₄₇ O ₂₄), 864.1882 (-C ₁₅ H ₁₂ O ₆), 863.1870 (-C ₆₀ H ₄₉ O ₂₄), 577.1364 (-C ₇₅ H ₅₉ O ₃₀), 576.1213 (-C ₄₅ H ₃₆ O ₁₈), 575.1207 (-C ₇₅ H ₆₁ O ₃₀), 449.0874 (-C ₈₁ H ₆₇ O ₃₃), 407.0774 (-C ₈₃ H ₆₉ O ₃₄), 289.0721 (-C ₉₀ H ₇₁ O ₃₆), 287.0562 (-C ₉₀ H ₇₃ O ₃₆), 269.0461 (-C ₉₀ H ₇₅ O ₃₇)	[27]
Procyanidin octamer B-type linkage isomer 2	[M-2H] ²⁻	1153.2635	C ₁₂₀ H ₉₆ O ₄₈	2.360	8.08	865.1980 (-C ₇₅ H ₅₉ O ₃₀), 864.1849 (-C ₃₀ H ₂₄ O ₁₂), 863.1844 (-C ₇₅ H ₆₁ O ₃₀), 577.1356 (-C ₉₀ H ₇₁ O ₃₆), 575.1198 (-C ₉₀ H ₇₃ O ₃₆), 449.0884 (-C ₉₆ H ₇₉ O ₃₉), 407.0774 (-C ₉₈ H ₈₁ O ₄₀), 289.0718 (-C ₁₀₅ H ₈₃ O ₄₂), 287.0563 (-C ₁₀₅ H ₈₅ O ₄₂), 269.0459 (-C ₁₀₅ H ₈₇ O ₄₃)	[27]
Galloyl-(Epi)catechin-(Epi)catechin B-type linkage isomer 2	[M-H] ⁻	729.1468	C ₃₇ H ₂₉ O ₁₆	2.440	8.09	577.1392 (-C ₇ H ₄ O ₄), 541.1155 (-C ₇ H ₈ O ₆), 451.1039 (-C ₁₃ H ₁₀ O ₇), 441.0831 (-C ₁₅ H ₁₂ O ₆), 433.0932 (-C ₁₃ H ₁₂ O ₈), 425.0880 (-C ₁₅ H ₁₂ O ₇), 407.0774 (-C ₁₅ H ₁₄ O ₈), 289.0719 (-C ₂₂ H ₁₆ O ₁₀), 287.0563 (-C ₂₂ H ₁₈ O ₁₀), 269.0457 (-C ₂₂ H ₂₀ O ₁₁), 169.0134 (-C ₃₀ H ₂₄ O ₁₁), 125.0233 (-C ₃₁ H ₂₄ O ₁₃)	[29]
Procyanidin dimer B-type isomer 4	[M-H] ⁻	577.1352	C ₃₀ H ₂₅ O ₁₂	1.021	8.11	559.1257 (-H ₂ O), 451.1038 (-C ₆ H ₆ O ₃), 425.0880 (-C ₈ H ₈ O ₃), 407.0772 (-C ₈ H ₁₀ O ₄),	[27]

Galloyl-(Epi)catechin-(Epi)catechin A-type linkage isomer 1	[M-H] ⁻	727.1342	C ₃₇ H ₂₇ O ₁₆	6.682	8.14	289.0719 (-C ₁₅ H ₁₂ O ₆), 287.0562 (-C ₁₅ H ₁₄ O ₆), 125.0233 (-C ₂₄ H ₂₀ O ₉)	[29]
O-Galloyl Procyanidin hexamer B- type linkage isomer 2	[M-2H] ²⁻	940.7009	C ₉₇ H ₇₆ O ₄₀	1.950	8.30	575.1203 (-C ₇ H ₄ O ₄), 539.0983 (-C ₇ H ₈ O ₆), 449.0894 (-C ₁₃ H ₁₀ O ₇), 441.0815 (-C ₁₅ H ₁₀ O ₆), 439.0669 (-C ₁₅ H ₁₂ O ₆), 431.0779 (-C ₁₃ H ₁₂ O ₈), 425.0886 (-C ₁₅ H ₁₀ O ₇), 407.0772 (-C ₁₅ H ₁₂ O ₈), 389.0672 (-C ₁₅ H ₁₄ O ₉), 289.0719 (-C ₂₂ H ₁₄ O ₁₀), 287.0563 (-C ₂₂ H ₁₆ O ₁₀), 271.0617 (- C ₂₂ H ₁₆ O ₁₁), 269.0455 (-C ₂₂ H ₁₈ O ₁₁), 169.0134 (-C ₃₀ H ₂₂ O ₁₁), 125.0233 (-C ₃₁ H ₂₂ O ₁₃) 1305.2760 (-C ₃₀ H ₂₃ O ₁₂), 1303.2544 (- C ₃₀ H ₂₅ O ₁₂), 865.1932 (-C ₅₂ H ₃₉ O ₂₂), 863.1824 (-C ₅₂ H ₄₁ O ₂₂), 796.1659 (-C ₁₅ H ₁₂ O ₆), 577.1346 (-C ₆₇ H ₅₁ O ₂₈), 576.1235 (-C ₃₇ H ₂₈ O ₁₆), 575.1202 (-C ₆₇ H ₅₃ O ₂₈), 449.0894 (- C ₇₃ H ₅₉ O ₃₁), 407.0770 (-C ₇₅ H ₆₁ O ₃₂), 289.0720 (-C ₈₂ H ₆₃ O ₃₄), 287.0561 (-C ₈₂ H ₆₅ O ₃₄), 269.0454 (-C ₈₂ H ₆₇ O ₃₅)	[29]
Procyanidin tetramer B- type isomer 2	[M-H] ⁻	1153.2655	C ₆₀ H ₄₉ O ₂₄	4.051	8.37	1027.2325 (-C ₇ H ₆ O ₃), 1001.2158 (-C ₈ H ₈ O ₃), 983.2032 (-C ₈ H ₁₀ O ₄), 865.2002 (-C ₁₅ H ₁₂ O ₆), 863.1830 (-C ₁₅ H ₁₄ O ₆), 739.1667 (-C ₂₁ H ₁₈ O ₉) , 713.1518 (-C ₂₃ H ₂₀ O ₉), 577.1355 (- C ₃₀ H ₂₄ O ₁₂), 575.1201 (-C ₃₀ H ₂₆ O ₁₂), 451.1040 (-C ₃₆ H ₃₀ O ₁₅), 425.0879 (- C ₃₈ H ₃₂ O ₁₅), 407.0772 (-C ₃₈ H ₃₄ O ₁₆), 289.0720 (-C ₄₅ H ₃₆ O ₁₈), 287.0562 (- C ₄₅ H ₃₈ O ₁₈), 125.0233 (-C ₅₄ H ₄₄ O ₂₁) 879.1789 (-C ₄₅ H ₃₇ O ₁₈), 863.1887 (- C ₄₅ H ₃₇ O ₁₉), 720.1511 (-C ₁₅ H ₁₂ O ₇), 577.1359 (-C ₆₀ H ₄₇ O ₂₅), 576.1225 (-C ₃₀ H ₂₂ O ₁₃), 575.1169 (-C ₆₀ H ₄₉ O ₂₅), 449.0862 (- C ₆₆ H ₅₅ O ₂₈), 407.0771 (-C ₆₈ H ₅₇ O ₂₉), 303.0509 (-C ₇₅ H ₆₁ O ₃₀), 289.0721 (-C ₇₅ H ₅₉ O ₃₁), 287.0562 (-C ₇₅ H ₆₁ O ₃₁), 125.0234 (-C ₈₅ H ₆₇ O ₃₄)	[31,34]
(Epi)catechin-(Epi)catechin- (Epi)catechin-(Epi)catechin- (Epi)catechin-(Epi)gallocatechin B- type linkage isomer 2	[M-2H] ²⁻	872.1816	C ₉₀ H ₇₂ O ₃₇	-6.298	8.43	879.1789 (-C ₄₅ H ₃₇ O ₁₈), 863.1887 (- C ₄₅ H ₃₇ O ₁₉), 720.1511 (-C ₁₅ H ₁₂ O ₇), 577.1359 (-C ₆₀ H ₄₇ O ₂₅), 576.1225 (-C ₃₀ H ₂₂ O ₁₃), 575.1169 (-C ₆₀ H ₄₉ O ₂₅), 449.0862 (- C ₆₆ H ₅₅ O ₂₈), 407.0771 (-C ₆₈ H ₅₇ O ₂₉), 303.0509 (-C ₇₅ H ₆₁ O ₃₀), 289.0721 (-C ₇₅ H ₅₉ O ₃₁), 287.0562 (-C ₇₅ H ₆₁ O ₃₁), 125.0234 (-C ₈₅ H ₆₇ O ₃₄)	[29]

O-Galloyl-(Epi)catechin-(Epi)gallocatechin A-type linkage isomer 1	[M-H] ⁻	743.1285	C ₃₇ H ₂₇ O ₁₇	5.000	8.43	591.1195(-C ₇ H ₄ O ₄), 573.1058 (-C ₇ H ₆ O ₅), 555.0934 (-C ₇ H ₈ O ₆), 441.0810 (-C ₁₅ H ₁₂ O ₇), 439.0671 (-C ₁₅ H ₁₂ O ₇), 423.0724 (-C ₁₅ H ₁₄ O ₈), 421.0567 (-C ₁₅ H ₁₄ O ₈), 405.0625 (-C ₁₅ H ₁₆ O ₉), 403.0455 (-C ₁₅ H ₁₆ O ₉), 289.0712 (-C ₂₂ H ₁₄ O ₁₁), 169.0134 (-C ₂₀ H ₂₂ O ₁₂), 125.0234 (-C ₃₁ H ₂₂ O ₁₄)	[29]
(Epi)catechin-(Epi)catechin-(Epi)gallocatechin ABB linkage isomer 2	[M-H] ⁻	879.1736	C ₄₅ H ₃₅ O ₁₉	-4.178	8.46	753.1474 (-C ₆ H ₆ O ₃), 727.1279 (-C ₈ H ₈ O ₃), 709.1221 (-C ₈ H ₁₀ O ₄), 591.1120 (-C ₁₅ H ₁₂ O ₆), 575.1223 (-C ₁₅ H ₁₂ O ₇), 573.1007 (-C ₁₅ H ₁₄ O ₇), 465.0789 (-C ₂₁ H ₁₈ O ₉), 441.0752 (-C ₂₃ H ₁₈ O ₉), 423.0729 (-C ₂₃ H ₂₀ O ₁₀), 413.0830 (-C ₂₄ H ₁₈ O ₁₀), 289.0718 (-C ₃₀ H ₂₂ O ₁₃), 287.0563 (-C ₃₀ H ₂₄ O ₁₃), 125.0233 (-C ₃₉ H ₃₀ O ₁₆)	[29]
Procyanidin pentamer B-type linkage isomer 5	[M-2H] ²⁻	720.1594	C ₇₅ H ₆₀ O ₃₀	1.997	8.66	1315.2996 (-C ₆ H ₅ O ₃), 1153.2644 (-C ₁₅ H ₁₁ O ₆), 1151.2490 (-C ₁₅ H ₁₃ O ₆), 865.2009 (-C ₃₀ H ₂₃ O ₁₂), 863.1850 (-C ₃₀ H ₂₅ O ₁₂), 577.1356 (-C ₄₅ H ₃₅ O ₁₈), 576.1249 (-C ₁₅ H ₁₂ O ₆), 575.1199 (-C ₄₅ H ₃₇ O ₁₈), 449.0884 (-C ₅₁ H ₄₃ O ₂₁), 407.0773 (-C ₅₃ H ₄₅ O ₂₂), 289.0719 (-C ₆₀ H ₄₇ O ₂₄), 287.0563 (-C ₆₀ H ₄₉ O ₂₄), 269.0450 (-C ₆₀ H ₅₁ O ₂₅)	[27]
Digalloyl procyanidin trimer B-type linkage isomer 1	[M-2H] ²⁻	584.1113	C ₅₉ H ₄₄ O ₂₆	9.892	8.68	577.1360 (-C ₂₉ H ₁₉ O ₁₄), 575.1181 (-C ₂₉ H ₂₁ O ₁₄), 508.1024 (-C ₇ H ₄ O ₄), 449.0898 (-C ₃₅ H ₂₇ O ₁₇), 441.0815 (-C ₃₇ H ₂₇ O ₁₆), 407.0780 (-C ₃₇ H ₂₉ O ₁₈), 289.0720 (-C ₄₄ H ₃₁ O ₂₀), 287.0720 (-C ₄₄ H ₃₃ O ₂₀), 269.0457 (-C ₄₄ H ₃₅ O ₂₁), 169.0133 (-C ₅₂ H ₃₉ O ₂₁), 125.0233 (-C ₅₄ H ₃₉ O ₂₃)	[29]
Galloyl procyanidin tetramer B-type linkage isomer 3	[M-2H] ²⁻	652.1326	C ₆₇ H ₅₂ O ₂₈	1.416	8.68	1179.2493 (-C ₆ H ₅ O ₃), 865.1957 (-C ₂₂ H ₁₅ O ₁₀), 863.1774 (-C ₂₂ H ₁₇ O ₁₀), 577.1362 (-C ₃₇ H ₂₇ O ₁₆), 575.1204 (-C ₃₇ H ₂₉ O ₁₆), 449.0882 (-C ₄₃ H ₃₅ O ₁₉), 407.0772 (-C ₄₅ H ₃₇ O ₂₀), 289.0719 (-C ₅₂ H ₃₉ O ₂₂), 287.0563 (-C ₅₂ H ₄₁ O ₂₂), 269.0453 (-C ₅₂ H ₄₃ O ₂₃), 125.0233 (-C ₆₂ H ₄₇ O ₂₅)	[29]

O-Galloyl Procyanidin pentamer B-type linkage isomer 3	[M-2H] ²⁻	796.1674	C ₈₂ H ₅₄ O ₃₄	5.048	8.74	1305.2805 (-C ₁₅ H ₁₁ O ₆), 1303.2512 (-C ₁₅ H ₁₃ O ₆), 865.1991 (-C ₃₇ H ₂₇ O ₁₆), 863.1835 (-C ₃₇ H ₂₉ O ₁₆), 652.1334 (-C ₁₅ H ₁₂ O ₆), 577.1368 (-C ₅₂ H ₃₉ O ₂₂), 576.1223 (-C ₂₂ H ₁₆ O ₁₀), 575.1195 (-C ₅₂ H ₄₁ O ₂₂), 449.0877 (-C ₅₈ H ₄₇ O ₂₅), 407.0774 (-C ₆₀ H ₄₉ O ₂₆), 289.0720 (-C ₆₇ H ₅₁ O ₂₈), 287.0564 (-C ₆₇ H ₅₃ O ₂₈), 269.0458 (-C ₆₇ H ₅₅ O ₂₉)	[29]
O-Galloyl-(Epi)catechin-(Epi)catechin B-type linkage isomer 3	[M-H] ⁻	1017.2114	C ₅₂ H ₄₁ O ₂₂	2.372	8.76	891.1774 (-C ₆ H ₆ O ₃), 729.1465 (-C ₁₅ H ₁₂ O ₆), 727.1293 (-C ₁₅ H ₁₄ O ₆), 577.1373 (-C ₂₂ H ₁₆ O ₁₀), 575.1215 (-C ₂₂ H ₁₈ O ₁₀), 557.1100 (-C ₂₂ H ₂₀ O ₁₁), 451.1045 (-C ₂₈ H ₂₂ O ₁₃), 433.0935 (-C ₂₈ H ₂₄ O ₁₄), 425.0887 (-C ₃₀ H ₂₄ O ₁₃), 423.0725 (-C ₃₀ H ₂₆ O ₁₃), 407.0772 (-C ₃₀ H ₂₆ O ₁₄), 405.0609 (-C ₃₀ H ₂₈ O ₁₄), 289.0721 (-C ₃₇ H ₂₈ O ₁₆), 287.0564 (-C ₃₇ H ₃₀ O ₁₆), 269.0458 (-C ₃₇ H ₃₂ O ₁₇), 169.0135 (-C ₄₅ H ₃₆ O ₁₇), 125.0234 (-C ₄₆ H ₃₆ O ₁₉)	[29]
Galloyl (Epi)catechin-(Epi)catechin-(Epi)catechin-(Epi)gallo catechin B-type linkage	[M-2H] ²⁻	948.2001	C ₉₇ H ₇₆ O ₄₁	7.992	8.84	1131.1815 (-C ₄₅ H ₃₅ O ₁₈), 577.1333 (-C ₆₇ H ₅₁ O ₂₉), 576.1255 (-C ₃₇ H ₂₈ O ₁₇), 575.1218 (-C ₆₇ H ₅₃ O ₂₉), 449.0910 (-C ₇₃ H ₅₉ O ₃₂), 407.0784 (-C ₇₅ H ₆₁ O ₃₃), 303.0524 (-C ₈₂ H ₆₅ O ₃₄), 289.0717 (-C ₈₂ H ₆₃ O ₃₅), 287.0567 (-C ₈₂ H ₆₅ O ₃₅)	[29]
(Epi)catechin gallate isomer 1	[M-H] ⁻	441.0829	C ₂₂ H ₁₇ O ₁₀	2.804	8.98	331.0462 (-C ₆ H ₆ O ₂), 303.0511 (-C ₇ H ₆ O ₃), 289.0718 (-C ₇ H ₄ O ₄), 271.0613 (-C ₇ H ₆ O ₅), 169.0134 (-C ₁₅ H ₁₂ O ₅), 125.0233 (-C ₁₈ H ₇ O ₇)	[28]
Galloyl-(Epi)catechin-(Epi)catechin B-type linkage isomer 3	[M-H] ⁻	729.1413	C ₃₇ H ₂₉ O ₁₆	-5.090	9.03	577.1323 (-C ₇ H ₄ O ₄), 451.1046 (-C ₁₃ H ₁₀ O ₇), 441.0832 (-C ₁₅ H ₁₂ O ₆), 433.0953 (-C ₁₃ H ₁₂ O ₈), 425.0890 (-C ₁₅ H ₁₂ O ₇), 407.0777 (-C ₁₅ H ₁₄ O ₈), 289.0719 (-C ₂₂ H ₁₆ O ₁₀), 287.0556 (-C ₂₂ H ₁₈ O ₁₀), 271.0611 (-C ₂₂ H ₁₈ O ₁₂), 269.0466 (-C ₂₂ H ₂₀ O ₁₁), 169.0133 (-C ₃₀ H ₂₄ O ₁₁), 125.0233 (-C ₃₁ H ₂₄ O ₁₃)	[29]

O-Galloyl Procyanidin pentamer B-type linkage isomer 4	[M-2H] ²⁻	796.1658	C ₈₂ H ₅₄ O ₃₄	3.051	9.22	1305.2817 (-C ₁₅ H ₁₁ O ₆), 1303.2562 (-C ₁₅ H ₁₃ O ₆), 865.1967 (-C ₃₇ H ₂₇ O ₁₆), 863.1857 (-C ₃₇ H ₂₉ O ₁₆), 652.1328 (-C ₁₅ H ₁₂ O ₆), 577.1358 (-C ₅₂ H ₃₉ O ₂₂), 576.1236 (-C ₂₂ H ₁₆ O ₁₀), 575.1200 (-C ₅₂ H ₄₁ O ₂₂), 449.0878 (-C ₅₈ H ₄₇ O ₂₅), 407.0774 (-C ₆₀ H ₄₉ O ₂₆), 289.0720 (-C ₆₇ H ₅₁ O ₂₈), 287.0563 (-C ₆₇ H ₅₃ O ₂₈), 269.0457 (-C ₆₇ H ₅₅ O ₂₉)	[29]
(Epi)afzelechin-(Epi)catechin-(Epi)catechin linkage B-type isomer 2	[M-H] ⁻	849.2043	C ₄₅ H ₃₇ O ₁₇	2.148	9.23	561.1411 (-C ₁₅ H ₁₂ O ₆), 559.1271 (-C ₁₅ H ₁₄ O ₆), 407.0786 (-C ₂₃ H ₂₂ O ₉), 289.0717 (-C ₃₀ H ₂₄ O ₁₁), 287.0565 (-C ₃₀ H ₂₆ O ₁₁), 271.0614 (-C ₃₀ H ₂₆ O ₁₂), 125.0235 (-C ₃₉ H ₃₂ O ₁₄)	[32]
Procyanidin octamer B-type linkage isomer 3	[M-2H] ²⁻	1153.2633	C ₁₂₀ H ₉₆ O ₄₈	2.152	9.23	865.1973 (-C ₇₅ H ₅₉ O ₃₀), 864.1902 (-C ₃₀ H ₂₄ O ₁₂), 863.1861 (-C ₇₅ H ₆₁ O ₃₀), 577.1356 (-C ₉₀ H ₇₁ O ₃₆), 576.1217 (-C ₆₀ H ₄₈ O ₂₄), 575.1205 (-C ₉₀ H ₇₃ O ₃₆), 449.0890 (-C ₉₆ H ₇₉ O ₃₉), 407.0770 (-C ₉₈ H ₈₁ O ₄₀), 289.0721 (-C ₁₀₅ H ₈₃ O ₄₂), 287.0563 (-C ₁₀₅ H ₈₅ O ₄₂), 269.0455 (-C ₁₀₅ H ₈₇ O ₄₃)	[27]
O-Galloyl Procyanidin hexamer B-type linkage isomer 3	[M-2H] ²⁻	940.6982	C ₉₇ H ₇₆ O ₄₀	-0.879	9.25	1305.2638 (-C ₃₀ H ₂₃ O ₁₂), 1303.2577 (-C ₃₀ H ₂₅ O ₁₂), 865.1923 (-C ₅₂ H ₃₉ O ₂₂), 863.1843 (-C ₅₂ H ₄₁ O ₂₂), 796.1611 (-C ₁₅ H ₁₂ O ₆), 577.1355 (-C ₆₇ H ₅₁ O ₂₈), 576.1249 (-C ₃₇ H ₂₈ O ₁₆), 575.1207 (-C ₆₇ H ₅₃ O ₂₈), 449.0883 (-C ₇₃ H ₅₉ O ₃₁), 407.0773 (-C ₇₅ H ₆₁ O ₃₂), 289.0721 (-C ₈₂ H ₆₃ O ₃₄), 287.0563 (-C ₈₂ H ₆₅ O ₃₄), 269.0459 (-C ₈₂ H ₆₇ O ₃₅)	[29]
Digalloyl procyanidin pentamer B-type linkage isomer 1	[M-2H] ²⁻	872.1750	C ₈₉ H ₆₈ O ₃₈	7.005	9.27	865.1940 (-C ₄₄ H ₃₁ O ₂₀), 863.1796 (-C ₄₄ H ₃₃ O ₂₀), 796.1599 (-C ₇ H ₄ O ₄), 729.1506 (-C ₅₂ H ₃₉ O ₂₂), 577.1368 (-C ₅₉ H ₄₃ O ₂₆), 576.1249 (-C ₂₉ H ₂₀ O ₁₄), 575.1205 (-C ₅₉ H ₄₅ O ₂₆), 449.0881 (-C ₆₅ H ₅₁ O ₂₉), 407.0778 (-C ₆₇ H ₅₃ O ₃₀), 289.0721 (-C ₇₄ H ₅₅ O ₃₂), 287.0563 (-C ₇₄ H ₅₇ O ₃₂), 269.0459 (-C ₇₄ H ₅₉ O ₃₃)	[29]

Procyanidin hexamer B-type linkage	[M-2H] ²⁻	864.1895	C ₉₀ H ₇₂ O ₃₆	-0.122	9.28	1153.2609 (-C ₃₀ H ₂₃ O ₁₂), 1151.2482 (-C ₃₀ H ₂₅ O ₁₂), 1135.2483 (-C ₃₀ H ₂₅ O ₁₃), 865.2001 (-C ₄₅ H ₃₅ O ₁₈), 863.1826 (-C ₄₅ H ₃₇ O ₁₈), 720.1568 (-C ₁₅ H ₁₂ O ₆), 577.1359 (-C ₆₀ H ₄₇ O ₂₄), 576.1241 (-C ₃₀ H ₂₄ O ₁₂), 575.1200 (-C ₆₀ H ₄₉ O ₂₄), 449.0878 (-C ₆₆ H ₅₅ O ₂₇), 407.0774 (-C ₆₈ H ₅₇ O ₂₈), 289.0719 (-C ₇₅ H ₅₉ O ₃₀), 287.0562 (-C ₇₅ H ₆₁ O ₃₀), 269.0452 (-C ₇₅ H ₆₃ O ₃₁)	[27]
(Epi)catechin-(Epi)catechin-(Epi)gallocatechin ABB linkage isomer 3	[M-H] ⁻	879.1769	C ₄₅ H ₃₅ O ₁₉	-0.357	9.34	727.1299 (-C ₈ H ₈ O ₃), 709.1227 (-C ₈ H ₁₀ O ₄), 591.1163 (-C ₁₅ H ₁₂ O ₆), 577.1340 (-C ₁₅ H ₁₀ O ₇), 575.1220 (-C ₁₅ H ₁₂ O ₇), 573.1053 (-C ₁₅ H ₁₄ O ₇), 423.0715 (-C ₂₃ H ₂₀ O ₁₀), 413.0905 (-C ₂₄ H ₁₈ O ₁₀), 289.0721 (-C ₃₀ H ₂₂ O ₁₃), 287.0561 (-C ₃₀ H ₂₄ O ₁₃), 125.0233 (-C ₃₉ H ₃₀ O ₁₆)	[29]
O-Galloyl-(Epi)catechin-(Epi)gallocatechin A-type linkage isomer 2	[M-H] ⁻	743.1255	C ₃₇ H ₂₇ O ₁₇	0.896	9.41	573.1044 (-C ₇ H ₆ O ₅), 455.0634 (-C ₁₅ H ₁₂ O ₇), 439.0658 (-C ₁₅ H ₁₂ O ₇), 421.0565 (-C ₁₅ H ₁₄ O ₈), 303.0514 (-C ₂₂ H ₁₆ O ₁₀), 289.0731 (-C ₂₂ H ₁₄ O ₁₁), 287.0562 (-C ₂₂ H ₁₆ O ₁₁), 285.0406 (-C ₂₂ H ₁₈ O ₁₁), 169.0127 (-C ₂₀ H ₂₂ O ₁₂), 125.0233 (-C ₃₁ H ₂₂ O ₁₄)	[29]
(Epi)catechin-(Epi)gallocatechin A-type linkage isomer 4	[M-H] ⁻	591.1123	C ₃₀ H ₂₃ O ₁₃	-2.648	9.49	573.1034 (-H ₂ O), 465.0840 (-C ₆ H ₆ O ₃), 423.0727 (-C ₈ H ₈ O ₄), 303.0511 (-C ₁₅ H ₁₂ O ₆), 289.0719 (-C ₁₅ H ₁₀ O ₇), 285.0403 (-C ₁₅ H ₁₄ O ₁₇), 125.0234 (-C ₂₄ H ₁₈ O ₁₀)	[29]
(Epi)afzelechin-(Epi)catechin linkage B-type isomer 4	[M-H] ⁻	561.1401	C ₃₀ H ₂₆ O ₁₁	1.679	9.51	435.1064 (-C ₆ H ₆ O ₃), 409.0901 (-C ₈ H ₈ O ₃), 407.0785 (-C ₈ H ₁₀ O ₃), 289.0720 (-C ₁₅ H ₁₂ O ₅), 273.0770 (-C ₁₅ H ₁₂ O ₆), 271.0613 (-C ₁₅ H ₁₁ O ₅), 125.0281 (-C ₂₄ H ₂₀ O ₈)	[33]
O-Galloyl procyanidin octamer B-type linkage isomer 1	[M-3H] ³⁻	819.1783	C ₁₂₇ H ₁₀₁ O ₅₂	4.386	9.70	865.2010 (-C ₈₂ H ₆₄ O ₃₄), 863.1857 (-C ₈₂ H ₆₆ O ₃₄), 577.1355 (-C ₉₇ H ₇₆ O ₄₀), 575.1202 (-C ₉₇ H ₇₈ O ₄₀), 449.0881 (-C ₁₀₃ H ₈₄ O ₄₃), 407.0772 (-C ₁₀₅ H ₈₆ O ₄₄), 289.0717 (-C ₁₁₂ H ₈₈ O ₄₆), 287.0564 (-C ₁₁₂ H ₉₀ O ₄₆), 269.0449 (-C ₁₁₂ H ₉₂ O ₄₇)	[29]

O-Galloyl Procyanidin eptamer B-type linkage isomer 1	[M-2H] ³⁻	722.8196	C ₁₁₂ H ₈₇ O ₄₆	2.717	9.71	865.1950 (-C ₈₂ H ₆₄ O ₃₄), 863.1845 (-C ₈₂ H ₆₆ O ₃₄), 577.1353 (-C ₉₇ H ₇₆ O ₄₀), 575.1203 (-C ₉₇ H ₇₈ O ₄₀), 449.0874 (-C ₁₀₃ H ₈₄ O ₄₃), 407.0770 (-C ₁₀₅ H ₈₆ O ₄₄), 289.0719 (-C ₁₁₂ H ₈₈ O ₄₆), 287.0562 (-C ₁₁₂ H ₉₀ O ₄₆), 269.0458 (-C ₁₁₂ H ₉₂ O ₄₇)	[29]
Trigalloyl procyanidin tetramer B-type linkage isomer 1	[M-2H] ²⁻	804.1475	C ₈₁ H ₆₀ O ₃₆	5.962	9.78	1169.2173 (-C ₂₂ H ₁₅ O ₁₀), 1167.2109 (-C ₂₂ H ₁₇ O ₁₀), 729.1448 (-C ₄₄ H ₃₁ O ₂₀), 728.1385 (-C ₇ H ₄ O ₄), 727.1270 (-C ₄₄ H ₃₃ O ₂₀), 577.1387 (-C ₅₁ H ₃₅ O ₂₄), 575.1208 (-C ₅₁ H ₃₇ O ₂₄), 449.0878 (-C ₅₇ H ₄₃ O ₂₇), 441.0818 (-C ₅₉ H ₄₃ O ₂₆), 407.0766 (-C ₅₉ H ₄₅ O ₂₈), 289.0723 (-C ₆₆ H ₄₇ O ₃₀), 287.0563 (-C ₆₆ H ₄₉ O ₃₀), 269.0451 (-C ₆₆ H ₅₁ O ₃₁), 169.0135 (-C ₇₄ H ₅₅ O ₃₁), 125.0234 (-C ₇₆ H ₅₅ O ₃₃)	[29]
Digalloyl procyanidin trimer B-type linkage isomer 2	[M-2H] ²⁻	584.1073	C ₅₉ H ₄₄ O ₂₆	3.095	9.84	881.1605 (-C ₁₅ H ₁₁ O ₆), 577.1368 (-C ₂₉ H ₁₉ O ₁₄), 575.1204 (-C ₂₉ H ₂₁ O ₁₄), 508.0984 (-C ₇ H ₄ O ₄), 449.0883 (-C ₃₅ H ₂₇ O ₁₇), 441.0832 (-C ₃₇ H ₂₇ O ₁₆), 407.0775 (-C ₃₇ H ₂₉ O ₁₈), 289.0720 (-C ₄₄ H ₃₁ O ₂₀), 287.0564 (-C ₄₄ H ₃₃ O ₂₀), 269.0458 (-C ₄₄ H ₃₅ O ₂₁), 169.0134 (-C ₅₂ H ₃₉ O ₂₁), 125.0233 (-C ₅₄ H ₃₉ O ₂₃)	[29]
(Epi)catechin gallate isomer 2	[M-H] ⁻	441.0826	C ₂₂ H ₁₇ O ₁₀	2.169	9.88	331.0454 (-C ₆ H ₆ O ₂), 303.0510 (-C ₇ H ₆ O ₃), 289.0719 (-C ₇ H ₄ O ₄), 271.0610 (-C ₇ H ₆ O ₅), 169.0134 (-C ₁₅ H ₁₂ O ₅), 125.0233 (-C ₁₈ H ₇ O ₇)	[28]
Digalloyl procyanidin pentamer B-type linkage isomer 2	[M-2H] ²⁻	872.1754	C ₈₉ H ₆₈ O ₃₈	7.498	9.95	1017.2163 (-C ₃₇ H ₂₇ O ₁₆), 796.1569 (-C ₇ H ₄ O ₄), 729.1451 (-C ₅₂ H ₃₉ O ₂₂), 577.1370 (-C ₅₉ H ₄₃ O ₂₆), 576.1243 (-C ₂₉ H ₂₀ O ₁₄), 575.1195 (-C ₅₉ H ₄₅ O ₂₆), 449.0890 (-C ₆₅ H ₅₁ O ₂₉), 407.0770 (-C ₆₇ H ₅₃ O ₃₀), 289.0721 (-C ₇₄ H ₅₅ O ₃₂), 287.0564 (-C ₇₄ H ₅₇ O ₃₂), 269.0454 (-C ₇₄ H ₅₉ O ₃₃)	[29]
Digalloyl (Epi)catechin-(Epi)catechin B-type linkage	[M-2H] ²⁻	440.0744	C ₄₄ H ₃₂ O ₂₀	1.436	10.05	711.1374 (-C ₇ H ₅ O ₅), 449.0877 (-C ₂₀ H ₁₅ O ₁₁), 407.0774 (-C ₂₂ H ₁₇ O ₁₂), 364.0699 (-C ₇ H ₄ O ₄), 289.0720 (-C ₂₉ H ₁₉ O ₁₄), 287.0564 (-	[29]

Procyanidin octamer B-type linkage isomer 4	[M-2H] ²⁻	1153.2639	C ₁₂₀ H ₉₆ O ₄₈	2.881	10.05	C ₂₉ H ₂₁ O ₁₄), 269.0458 (-C ₂₉ H ₂₃ O ₁₅), 169.0134 (-C ₃₇ H ₂₇ O ₁₅), 125.0233 (-C ₃₉ H ₂₇ O ₁₇) 1008.1849 (-C ₁₅ H ₁₂ O ₆), 865.2004 (-C ₇₅ H ₅₉ O ₃₀), 864.1948 (-C ₃₀ H ₂₄ O ₁₂), 863.1862 (-C ₇₅ H ₆₁ O ₃₀), 577.1352 (-C ₉₀ H ₇₁ O ₃₆), 576.1220 (-C ₆₀ H ₄₈ O ₂₄), 575.1198 (-C ₉₀ H ₇₃ O ₃₆), 449.0873 (-C ₉₆ H ₇₉ O ₃₉), 407.0768 (-C ₉₈ H ₈₁ O ₄₀), 289.0722 (-C ₁₀₅ H ₈₃ O ₄₂), 287.0564 (-C ₁₀₅ H ₈₅ O ₄₂), 269.0466 (-C ₁₀₅ H ₈₇ O ₄₃)	[27]
Digallate (Epi)catechin-(Epi)catechin B-type linkage	[M-H] ⁻	881.1589	C ₄₄ H ₃₃ O ₂₀	2.669	10.06	729.1482 (-C ₇ H ₄ O ₄), 711.1340 (-C ₇ H ₆ O ₅), 603.1172 (-C ₁₃ H ₁₀ O ₇), 577.1380 (-C ₁₄ H ₈ O ₈), 559.1274 (-C ₁₄ H ₁₀ O ₉), 541.1144 (-C ₁₄ H ₁₂ O ₁₀), 451.1057 (-C ₂₀ H ₁₄ O ₁₁), 433.0934 (-C ₂₀ H ₁₆ O ₁₂), 425.0875 (-C ₂₂ H ₁₆ O ₁₁), 407.0774 (-C ₂₂ H ₁₈ O ₁₂), 389.0681 (-C ₂₂ H ₂₀ O ₁₃), 289.0720 (-C ₂₉ H ₂₀ O ₁₄), 287.0564 (-C ₂₉ H ₂₂ O ₁₄), 271.0616 (-C ₂₉ H ₂₂ O ₁₅), 269.0457 (-C ₂₉ H ₂₄ O ₁₅), 169.0134 (-C ₃₇ H ₂₈ O ₁₅), 125.0233 (-C ₃₈ H ₂₈ O ₁₇)	[29]
Trigalloyl procyanidin octamer B-type linkage	[M-3H] ³⁻	930.1877	C ₁₄₁ H ₁₀₇ O ₆₀	9.015	10.10	864.1874 (-C ₅₁ H ₃₅ O ₂₄), 577.1361 (-C ₁₁₁ H ₈₂ O ₄₈), 575.1218 (-C ₁₁₁ H ₈₄ O ₄₈), 449.0882 (-C ₁₁₇ H ₉₀ O ₅₁), 441.0847 (-C ₁₁₉ H ₉₀ O ₅₀), 407.0786 (-C ₁₁₉ H ₉₂ O ₅₂), 289.0720 (-C ₁₂₆ H ₉₄ O ₅₄), 287.0565 (-C ₁₂₆ H ₉₆ O ₅₄), 269.0462 (-C ₁₂₆ H ₉₈ O ₅₅)	[29]
(Epi)afzelechin-(Epi)catechin linkage B-type isomer 5	[M-H] ⁻	561.1411	C ₃₀ H ₂₆ O ₁₁	3.514	10.22	435.1067 (-C ₆ H ₆ O ₃), 425.0861 (-C ₈ H ₉ O ₂), 409.0935 (-C ₈ H ₈ O ₃), 289.0725 (-C ₁₅ H ₁₂ O ₅), 273.0768 (-C ₁₅ H ₁₂ O ₆), 271.0609 (-C ₁₅ H ₁₁ O ₅), 125.0234 (-C ₂₄ H ₂₀ O ₈)	[33]
Procyanidin dimer B-type isomer 5	[M-H] ⁻	577.1354	C ₃₀ H ₂₅ O ₁₂	1.454	10.22	559.1273 (-H ₂ O), 451.1038 (-C ₆ H ₆ O ₃), 425.0882 (-C ₈ H ₈ O ₃), 407.0773 (-C ₈ H ₁₀ O ₄), 289.0719 (-C ₁₅ H ₁₂ O ₆), 287.0563 (-C ₁₅ H ₁₄ O ₆), 125.0233 (-C ₂₄ H ₂₀ O ₉)	[27]

O-Galloyl-(Epi)catechin-(Epi)catechin-(Epi)catechin B-type linkage isomer 4	[M-H] ⁻	1017.2136	C ₅₂ H ₄₁ O ₂₂	4.535	10.34	891.1794 (-C ₆ H ₆ O ₃), 729.1474 (-C ₁₅ H ₁₂ O ₆), 575.1193 (-C ₂₂ H ₁₈ O ₁₀), 557.1069 (-C ₂₂ H ₂₀ O ₁₁), 541.1155 (-C ₂₂ H ₂₀ O ₁₂), 451.1039 (-C ₂₈ H ₂₂ O ₁₃), 433.0954 (-C ₂₈ H ₂₄ O ₁₄), 425.0879 (-C ₃₀ H ₂₄ O ₁₃), 423.0721 (-C ₃₀ H ₂₆ O ₁₃), 407.0771 (-C ₃₀ H ₂₆ O ₁₄), 405.0621 (-C ₃₀ H ₂₈ O ₁₄), 289.0719 (-C ₃₇ H ₂₈ O ₁₆), 287.0564 (-C ₃₇ H ₃₀ O ₁₆), 271.0605 (-C ₃₇ H ₃₀ O ₁₇), 269.0446 (-C ₃₇ H ₃₂ O ₁₇), 169.0134 (-C ₄₅ H ₃₆ O ₁₇), 125.0234 (-C ₄₆ H ₃₆ O ₁₉)	[29]
Digalloyl procyanidin eptamer B-type linkage	[M-3H] ³⁻	773.4949	C ₁₁₉ H ₉₁ O ₅₀	8.887	10.38	865.2014 (-C ₇₄ H ₅₄ O ₃₂), 846.1640 (-C ₂₉ H ₁₉ O ₁₄), 722.4777 (-C ₇ H ₄ O ₄), 577.1332 (-C ₈₉ H ₆₆ O ₃₈), 576.1224 (-C ₅₉ H ₄₃ O ₂₆), 575.1207 (-C ₈₉ H ₆₈ O ₃₈), 449.0888 (-C ₉₅ H ₇₄ O ₄₁), 407.0759 (-C ₉₇ H ₇₆ O ₄₂), 289.0721 (-C ₁₀₄ H ₇₈ O ₄₄), 287.0563 (-C ₁₀₄ H ₉₀ O ₄₄), 269.0452 (-C ₁₀₄ H ₈₂ O ₄₅)	[29]
(Epi)catechin-(Epi)catechin-(Epi)afzelechin AB-type linkage	[M-H] ⁻	847.1937	C ₄₅ H ₃₅ O ₁₇	4.774	10.48	695.1470 (-C ₈ H ₈ O ₃), 577.1416 (-C ₁₅ H ₁₀ O ₅), 557.1088 (-C ₁₅ H ₁₄ O ₆), 425.0902 (-C ₂₃ H ₁₈ O ₈), 407.0770 (-C ₂₃ H ₂₀ O ₉), 289.0713 (-C ₃₀ H ₂₂ O ₁₁), 287.0566 (-C ₃₀ H ₂₄ O ₁₁), 269.0454 (-C ₃₀ H ₂₆ O ₁₂), 125.0234 (-C ₃₉ H ₃₀ O ₁₄)	
(Epi)catechin-(Epi)catechin-(Epi)catechin-(Epi)catechin-(Epi)catechin-(Epi)gallo catechin B-type linkage isomer 1	[M-3H] ³⁻	869.1913	C ₁₃₅ H ₁₀₇ O ₅₅	6.866	10.54	865.1903 (-C ₉₀ H ₇₀ O ₃₇), 864.1877 (-C ₄₅ H ₃₅ O ₁₉), 863.1887 (-C ₉₀ H ₇₂ O ₃₇), 591.1143 (-C ₁₀₅ H ₈₄ O ₄₂), 577.1374 (-C ₁₀₅ H ₈₂ O ₄₃), 575.1216 (-C ₁₀₅ H ₈₄ O ₄₃), 467.0970 (-C ₁₁₁ H ₈₈ O ₄₅), 449.0900 (-C ₁₁₁ H ₉₀ O ₄₆), 441.0821 (-C ₁₁₃ H ₉₀ O ₄₅), 407.0782 (-C ₁₁₃ H ₉₂ O ₄₇), 303.0513 (-C ₁₂₀ H ₉₆ O ₄₈), 289.0722 (-C ₁₂₀ H ₉₄ O ₄₉), 287.0564 (-C ₁₂₀ H ₉₆ O ₄₉), 285.0403 (-C ₁₂₀ H ₉₈ O ₄₉), 269.0463 (-C ₁₂₀ H ₉₈ O ₅₀)	[29]
Galloyl-(Epi)catechin-(Epi)catechin B-type linkage isomer 4	[M-H] ⁻	729.1475	C ₃₇ H ₂₉ O ₁₆	3.359	10.60	577.1367 (-C ₇ H ₄ O ₄), 559.1242 (-C ₇ H ₆ O ₅), 541.1143 (-C ₇ H ₈ O ₆), 451.1056 (-C ₁₃ H ₁₀ O ₇), 433.0928 (-C ₁₃ H ₁₂ O ₈), 425.0887 (-C ₁₅ H ₁₂ O ₇),	[29]

Procyanidin eptamer B-type linkage isomer 3	[M-2H] ²⁻	1008.7337	C ₁₀₅ H ₈₄ O ₄₂	8.405	10.66	407.0773 (-C ₁₅ H ₁₄ O ₈), 289.0719 (-C ₂₂ H ₁₆ O ₁₀), 287.0565 (-C ₂₂ H ₁₈ O ₁₀), 271.0620 (-C ₂₂ H ₁₈ O ₁₂), 269.0461 (-C ₂₂ H ₂₀ O ₁₁), 169.0134 (-C ₃₀ H ₂₄ O ₁₁), 125.0233 (-C ₃₁ H ₂₄ O ₁₃)	[27]
Digalloyl procyanidin pentamer B-type linkage isomer 3	[M-2H] ²⁻	872.1744	C ₈₉ H ₆₈ O ₃₈	8.375	10.71	865.1964 (-C ₆₀ H ₄₇ O ₂₄), 864.1894 (-C ₁₅ H ₁₂ O ₆), 863.1843 (-C ₆₀ H ₄₉ O ₂₄), 577.1338 (-C ₇₅ H ₅₉ O ₃₀), 576.1224 (-C ₄₅ H ₃₆ O ₁₈), 575.1203 (-C ₇₅ H ₆₁ O ₃₀), 449.0881 (-C ₈₁ H ₆₇ O ₃₃), 407.0770 (-C ₈₃ H ₆₉ O ₃₄), 289.0719 (-C ₉₀ H ₇₁ O ₃₆), 287.0563 (-C ₉₀ H ₇₃ O ₃₆)	[29]
Trigalloyl procyanidin pentamer B-type linkage	[M-2H] ²⁻	948.1808	C ₉₆ H ₇₂ O ₄₂	6.782	10.71	1017.2058 (-C ₃₇ H ₂₇ O ₁₆), 865.2001 (-C ₄₄ H ₃₁ O ₂₀), 863.1843 (-C ₄₄ H ₃₃ O ₂₀), 796.1594 (-C ₇ H ₄ O ₄), 729.1429 (-C ₅₂ H ₃₉ O ₂₂), 577.1368 (-C ₅₉ H ₄₃ O ₂₆), 576.1241 (-C ₂₉ H ₂₀ O ₁₄), 575.1201 (-C ₅₉ H ₄₅ O ₂₆), 449.0895 (-C ₆₅ H ₅₁ O ₂₉), 407.0775 (-C ₆₇ H ₅₃ O ₃₀), 289.0720 (-C ₇₄ H ₅₅ O ₃₂), 287.0563 (-C ₇₄ H ₅₇ O ₃₂), 269.0458 (-C ₇₄ H ₅₉ O ₃₃)	[29]
Procyanidin trimer B-type isomer 9	[M-H] ⁻	865.1956	C ₄₅ H ₃₇ O ₁₈	-1.881	10.74	872.1625 (-C ₇ H ₄ O ₄), 577.1359 (-C ₉₆ H ₇₀ O ₄₂), 576.1261 (-C ₆₆ H ₄₇ O ₃₀), 575.1202 (-C ₉₆ H ₇₂ O ₄₂), 449.0871 (-C ₁₀₂ H ₇₈ O ₄₅), 407.0770 (-C ₁₀₄ H ₈₀ O ₄₆), 289.0725 (-C ₁₁₁ H ₈₂ O ₄₉), 287.0564 (-C ₁₁₁ H ₈₄ O ₄₉), 269.0459 (-C ₁₁₁ H ₈₆ O ₅₀)	[27]
O-Galloyl Procyanidin nonamer B-type linkage isomer 1	[M-3H] ³⁻	915.1989	C ₁₄₂ H ₁₁₃ O ₅₈	3.249	10.78	577.1349 (-C ₁₅ H ₁₂ O ₆), 575.1188 (-C ₁₅ H ₁₄ O ₆), 451.1035 (-C ₂₁ H ₁₈ O ₉), 449.0885 (-C ₂₁ H ₂₀ O ₉), 425.0867 (-C ₂₃ H ₂₀ O ₉), 423.0733 (-C ₂₃ H ₂₂ O ₉), 407.0770 (-C ₂₃ H ₂₂ O ₁₀), 405.0609 (-C ₂₃ H ₂₄ O ₁₀), 289.0720 (-C ₃₀ H ₂₄ O ₁₂), 287.0564 (-C ₃₀ H ₂₆ O ₁₂), 125.0234 (-C ₃₉ H ₃₁ O ₁₅)	[29]
						1303.2610 (-C ₇₅ H ₆₂ O ₃₀), 1151.2389 (-C ₈₂ H ₆₆ O ₃₄), 865.1985 (-C ₉₇ H ₇₆ O ₄₀), 864.1826 (-C ₇ H ₅ O ₄), 864.1826 (-C ₅₂ H ₄₁ O ₂₂), 863.1846 (-C ₉₇ H ₇₈ O ₄₀), 720.1542 (-C ₆₇ H ₅₃ O ₂₈), 577.1345 (-C ₁₁₂ H ₈₈ O ₄₆), 575.1201 (-	

						C ₁₁₂ H ₉₀ O ₄₆), 449.0893 (-C ₁₁₈ H ₉₆ O ₄₉), 407.0787 (-C ₁₂₀ H ₉₈ O ₅₀), 289.0721 (- C ₁₂₇ H ₁₀₀ O ₅₂), 287.0562 (-C ₁₂₇ H ₁₀₂ O ₅₂), 269.0445 (-C ₁₂₇ H ₁₀₄ O ₅₃)	
O-Galloyl Procyanidin eptamer B- type linkage isomer 2	[M-2H] ³⁻	722.8196	C ₁₁₂ H ₈₇ O ₄₆	-3.666	11.01	865.1907 (-C ₆₇ H ₅₀ O ₂₈), 864.1947 (- C ₂₂ H ₁₅ O ₁₀), 863.1754 (-C ₆₇ H ₅₂ O ₂₈), 577.1349 (-C ₉₇ H ₇₆ O ₄₀), 576.1264 (-C ₅₂ H ₂₉ O ₂₂), 575.1216 (-C ₉₇ H ₇₈ O ₄₀), 449.0881 (- C ₁₀₃ H ₈₄ O ₄₃), 407.0770 (-C ₁₀₅ H ₈₆ O ₄₄), 289.0720 (-C ₁₁₂ H ₈₈ O ₄₆), 287.0564 (- C ₁₁₂ H ₉₀ O ₄₆), 269.0462 (-C ₁₁₂ H ₉₂ O ₄₇)	[29]
Digalloyl procyanidin trimer B-type linkage isomer 3	[M-2H] ²⁻	584.1075	C ₅₉ H ₄₄ O ₂₆	3.403	11.05	577.1293 (-C ₂₉ H ₁₉ O ₁₄), 575.1221 (- C ₂₉ H ₂₁ O ₁₄), 508.1018 (-C ₇ H ₄ O ₄), 449.0897 (- C ₃₅ H ₂₇ O ₁₇), 441.0821 (-C ₃₇ H ₂₇ O ₁₆), 407.0782 (-C ₃₇ H ₂₉ O ₁₈), 289.0721 (-C ₄₄ H ₃₁ O ₂₀), 287.0563 (-C ₄₄ H ₃₃ O ₂₀), 269.0457 (- C ₄₄ H ₃₅ O ₂₁), 169.0135 (-C ₅₂ H ₃₉ O ₂₁), 125.0234 (-C ₅₄ H ₃₉ O ₂₃)	[29]
O-Galloyl procyanidin octamer B- type linkage isomer 2	[M-3H] ³⁻	819.1696	C ₁₂₇ H ₁₀₁ O ₅₂	-6.332	11.09	1152.2498 (-C ₇ H ₅ O ₄), 865.1938 (-C ₉₇ H ₇₆ O ₄₀), 863.1829 (-C ₉₇ H ₇₈ O ₄₀), 577.1364 (- C ₉₇ H ₇₆ O ₄₀), 575.1222 (-C ₉₇ H ₇₈ O ₄₀), 449.0861 (-C ₁₀₃ H ₈₄ O ₄₃), 407.0785 (-C ₁₀₅ H ₈₆ O ₄₄), 289.0719 (-C ₁₁₂ H ₈₈ O ₄₆), 287.0562 (- C ₁₁₂ H ₉₀ O ₄₆), 269.0461 (-C ₁₁₂ H ₉₂ O ₄₇)	[29]
O-Galloyl Procyanidin hexamer B- type linkage isomer 4	[M-2H] ²⁻	940.7008	C ₉₇ H ₇₆ O ₄₀	1.916	11.36	1305.2745 (-C ₃₀ H ₂₃ O ₁₂), 1303.2551 (- C ₃₀ H ₂₅ O ₁₂) 863.1827 (-C ₅₂ H ₄₁ O ₂₂), 796.1663 (-C ₁₅ H ₁₂ O ₆), 577.1394 (-C ₆₇ H ₅₁ O ₂₈), 576.1237 (-C ₃₇ H ₂₈ O ₁₆), 575.1199 (-C ₆₇ H ₅₃ O ₂₈), 449.0879 (-C ₇₃ H ₅₉ O ₃₁), 407.0775 (- C ₇₅ H ₆₁ O ₃₂), 289.0717 (-C ₈₂ H ₆₃ O ₃₄), 287.0564 (-C ₈₂ H ₆₅ O ₃₄), 269.0455 (-C ₈₂ H ₆₇ O ₃₅)	[29]
(Epi)catechin-(Epi)catechin- (Epi)catechin-(Epi)catechin- (Epi)catechin-(Epi)catechin- (Epi)catechin-(Epi)catechin-	[M-3H] ³⁻	869.1787	C ₁₃₅ H ₁₀₇ O ₅₅	-7.596	11.38	1153.2574 (-C ₇₅ H ₅₈ O ₃₁), 865.1953 (- C ₉₀ H ₇₀ O ₃₇), 864.1877 (-C ₄₅ H ₃₅ O ₁₉), 863.1802 (-C ₉₀ H ₇₂ O ₃₇), 577.1380 (-C ₁₀₅ H ₈₂ O ₄₃), 575.1204 (-C ₁₀₅ H ₈₄ O ₄₃), 449.0885 (-	[29]

(Epi)gallocatechin B-type linkage isomer 2						C ₁₁₁ H ₉₀ O ₄₆), 441.0773 (-C ₁₁₃ H ₉₀ O ₄₅), 407.0750 (-C ₁₁₃ H ₉₂ O ₄₇), 303.0511 (-C ₁₂₀ H ₉₆ O ₄₈), 289.0722 (-C ₁₂₀ H ₉₄ O ₄₉), 287.0562 (-C ₁₂₀ H ₉₆ O ₄₉), 285.0404 (-C ₁₂₀ H ₉₈ O ₄₉), 269.0467 (-C ₁₂₀ H ₉₈ O ₅₀)	
Trigalloyl procyanidin tetramer B-type linkage isomer 2	[M-2H] ²⁻	804.1484	C ₈₁ H ₆₀ O ₃₆	7.181	11.63	881.1562 (-C ₃₇ H ₂₇ O ₁₆), 729.1483 (-C ₄₄ H ₃₁ O ₂₀), 728.1401 (-C ₇ H ₄ O ₄), 727.1401 (-C ₄₄ H ₃₃ O ₂₀), 652.1304 (-C ₁₄ H ₈ O ₈), 577.1293 (-C ₅₁ H ₃₅ O ₂₄), 575.1191 (-C ₅₁ H ₃₇ O ₂₄), 449.0881 (-C ₅₇ H ₄₃ O ₂₇), 441.0818 (-C ₅₉ H ₄₃ O ₂₆), 407.0768 (-C ₅₉ H ₄₅ O ₂₈), 289.0722 (-C ₆₆ H ₄₇ O ₃₀), 287.0563 (-C ₆₆ H ₄₉ O ₃₀), 269.0457 (-C ₆₆ H ₅₁ O ₃₁), 169.0134 (-C ₇₄ H ₅₅ O ₃₁), 125.0234 (-C ₇₆ H ₅₅ O ₃₃)	[29]
Digalloyl procyanidin octamer B-type linkage	[M-3H] ³⁻	869.8469	C ₁₃₄ H ₁₀₃ O ₅₆	2.061	11.94	1152.2460 (-C ₁₄ H ₇ O ₈), 863.1775 (-C ₈₉ H ₆₈ O ₃₈), 818.8378 (-C ₇ H ₄ O ₄), 577.1349 (-C ₁₀₄ H ₇₈ O ₄₄), 576.1218 (-C ₇₄ H ₅₅ O ₃₂), 575.1218 (-C ₁₀₄ H ₈₀ O ₄₄), 449.0897 (-C ₁₁₀ H ₈₆ O ₄₇), 407.0765 (-C ₁₁₂ H ₈₈ O ₄₈), 289.0721 (-C ₁₁₉ H ₉₀ O ₅₀), 287.0721 (-C ₁₁₉ H ₉₂ O ₅₀), 285.0415 (-C ₁₁₉ H ₉₄ O ₅₀), 269.0464 (-C ₁₁₉ H ₉₄ O ₅₁)	[29]
O-Galloyl procyanidin octamer B-type linkage isomer 3	[M-3H] ³⁻	819.1705	C ₁₂₇ H ₁₀₁ O ₅₂	-5.222	11.96	1153.2711 (-C ₆₇ H ₅₂ O ₂₈), 865.2057 (-C ₈₂ H ₆₄ O ₃₄), 863.1875 (-C ₈₂ H ₆₆ O ₃₄), 577.1321 (-C ₉₇ H ₇₆ O ₄₀), 575.1207 (-C ₉₇ H ₇₈ O ₄₀), 449.0870 (-C ₁₀₃ H ₈₄ O ₄₃), 407.0770 (-C ₁₀₅ H ₈₆ O ₄₄), 289.0719 (-C ₁₁₂ H ₈₈ O ₄₆), 287.0565 (-C ₁₁₂ H ₉₀ O ₄₆), 269.0458 (-C ₁₁₂ H ₉₂ O ₄₇)	[29]
Procyanidin trimer B-type isomer 10	[M-H] ⁻	865.2017	C ₄₅ H ₃₇ O ₁₈	4.279	12.01	577.1280 (-C ₁₅ H ₁₂ O ₆), 449.0901 (-C ₂₁ H ₂₀ O ₉), 407.0771 (-C ₂₃ H ₂₂ O ₁₀), 289.0723 (-C ₃₀ H ₂₄ O ₁₂), 287.0565 (-C ₃₀ H ₂₆ O ₁₂), 125.0233 (-C ₃₉ H ₃₁ O ₁₅)	[27]
(Epi)catechin-(Epi)catechin-(Epi)catechin-(Epi)catechin-	[M-3H] ³⁻	965.5389	C ₁₅₀ H ₁₁₉ O ₆₁	-3.628	12.07	864.1818 (-C ₆₀ H ₄₇ O ₂₅), 863.1837 (-C ₁₀₅ H ₈₄ O ₄₃), 577.1330 (-C ₁₂₀ H ₉₄ O ₄₉),	[29]

(Epi)catechin-(Epi)catechin- (Epi)catechin-(Epi)catechin- (Epi)catechin-(Epi)gallocatechin B- type linkage						576.1245 (-C ₉₀ H ₇₁ O ₃₇), 575.1207 (-C ₁₂₀ H ₉₆ O ₄₉), 449.0891 (-C ₁₂₆ H ₁₀₂ O ₅₂), 441.0853 (-C ₁₂₈ H ₁₀₂ O ₅₁), 407.0771 (-C ₁₂₈ H ₁₀₄ O ₅₃), 303.0511 (-C ₁₃₅ H ₁₀₈ O ₅₄), 289.0720 (-C ₁₃₅ H ₁₀₆ O ₅₅), 287.0560 (-C ₁₃₅ H ₁₀₈ O ₅₅), 285.0425 (-C ₁₃₅ H ₁₁₀ O ₅₅), 269.0450 (-C ₁₃₅ H ₁₁₀ O ₅₆)	
O-Galloyl Procyanidin decamer B- type linkage	[M-3H] ³⁻	1010.8876	C ₁₅₇ H ₁₂₁ O ₆₄	-9.078	12.20	1303.2552 (-C ₉₀ H ₇₀ O ₃₆), 1151.2513 (-C ₉₇ H ₇₄ O ₄₀), 863.1835 (-C ₁₈ H ₁₆ O ₁₀), 577.1340 (-C ₁₂₇ H ₉₆ O ₅₂), 575.1202 (-C ₁₂₇ H ₉₈ O ₅₂), 449.0876 (-C ₁₃₃ H ₁₀₄ O ₅₅), 407.0767 (-C ₁₃₅ H ₁₀₆ O ₅₆), 289.0726 (-C ₁₄₂ H ₁₀₈ O ₅₈), 287.0565 (-C ₁₄₂ H ₁₁₀ O ₅₈), 269.0466 (-C ₁₄₂ H ₁₁₂ O ₅₉)	[29]
O-Galloyl-(Epi)catechin- (Epi)catechin-(Epi)catechin B-type linkage isomer 5	[M-H] ⁻	1017.2135	C ₅₂ H ₄₁ O ₂₂	4.476	12.23	891.1757 (-C ₆ H ₆ O ₃), 729.1478 (-C ₁₅ H ₁₂ O ₆), 577.1303 (-C ₂₂ H ₁₆ O ₁₀), 575.1201 (-C ₂₂ H ₁₈ O ₁₀), 451.1046 (-C ₂₈ H ₂₂ O ₁₃), 433.0941 (-C ₂₈ H ₂₄ O ₁₄), 407.0777 (-C ₃₀ H ₂₆ O ₁₄), 405.0586 (-C ₃₀ H ₂₈ O ₁₄), 289.0720 (-C ₃₇ H ₂₈ O ₁₆), 287.0562 (-C ₃₇ H ₃₀ O ₁₆), 269.0454 (-C ₃₇ H ₃₂ O ₁₇), 169.0133 (-C ₄₅ H ₃₆ O ₁₇), 125.0234 (-C ₄₆ H ₃₆ O ₁₉)	[29]
Trigalloyl procyanidin trimer B-type linkage	[M-2H] ²⁻	660.1140	C ₆₆ H ₄₈ O ₃₀	4.512	12.33	729.1481 (-C ₂₉ H ₁₉ O ₁₄), 584.1064 (-C ₇ H ₄ O ₄), 575.1143 (-C ₃₆ H ₂₅ O ₁₈), 449.0884 (-C ₄₂ H ₃₁ O ₂₁), 407.0785 (-C ₄₄ H ₃₃ O ₂₂), 289.0723 (-C ₅₁ H ₃₅ O ₂₄), 287.0564 (-C ₅₁ H ₃₇ O ₂₄), 269.0439 (-C ₅₁ H ₃₉ O ₂₅), 169.0134 (-C ₅₉ H ₄₃ O ₂₅), 125.0233 (-C ₆₁ H ₄₁ O ₂₇)	[29]
O-Galloyl Procyanidin nonamer B- type linkage isomer 2	[M-3H] ³⁻	915.2023	C ₁₄₂ H ₁₁₃ O ₅₈	7.051	12.35	865.1936 (-C ₉₇ H ₇₆ O ₄₀), 863.1855 (-C ₉₇ H ₇₈ O ₄₀), 577.1354 (-C ₁₁₂ H ₈₈ O ₄₆), 575.1206 (-C ₁₁₂ H ₉₀ O ₄₆), 449.0875 (-C ₁₁₈ H ₉₆ O ₄₉), 407.0771 (-C ₁₂₀ H ₉₈ O ₅₀), 289.0721 (-C ₁₂₇ H ₁₀₀ O ₅₂), 287.0563 (-C ₁₂₇ H ₁₀₂ O ₅₂), 269.0464 (-C ₁₂₇ H ₁₀₄ O ₅₃)	[29]

Digalloyl procyanidin nonamer B-type linkage	[M-3H] ³⁻	965.5285	C ₁₄₉ H ₁₁₅ O ₆₂	-1.817	12.40	914.8511 (-C ₇ H ₄ O ₄), 865.1961 (-C ₁₀₄ H ₇₈ O ₄₄), 864.1833 (-C ₁₄ H ₈ O ₈), 577.1349 (-C ₁₁₉ H ₉₀ O ₅₀), 575.1204 (-C ₁₁₉ H ₉₂ O ₅₀), 449.0895 (-C ₁₂₅ H ₉₈ O ₅₃), 407.0786 (-C ₁₂₇ H ₁₀₀ O ₅₄), 289.0719 (-C ₁₃₄ H ₁₀₂ O ₅₆), 287.0565 (-C ₁₃₄ H ₁₀₄ O ₅₆), 269.0470 (-C ₁₃₄ H ₁₀₆ O ₅₇)	[29]
O-Galloyl Procyanidin hexamer B-type linkage isomer 5	[M-2H] ²⁻	940.7065	C ₉₇ H ₇₆ O ₄₀	8.006	12.42	1305.2733 (-C ₃₀ H ₂₃ O ₁₂), 863.1790 (-C ₅₂ H ₄₁ O ₂₂), 577.1319 (-C ₆₇ H ₅₁ O ₂₈), 576.1246 (-C ₃₇ H ₂₈ O ₁₆), 575.1220 (-C ₆₇ H ₅₃ O ₂₈), 449.0874 (-C ₇₃ H ₅₉ O ₃₁), 407.0775 (-C ₇₅ H ₆₁ O ₃₂), 289.0721 (-C ₈₂ H ₆₃ O ₃₄), 287.0564 (-C ₈₂ H ₆₅ O ₃₄), 269.0457 (-C ₈₂ H ₆₇ O ₃₅)	[29]
(Epi)catechin O-coumarate isomer 1	[M-H] ⁻	453.1088	C ₂₄ H ₁₉ O ₈	-4.950	12.47	341.0670 (-C ₆ H ₆ O), 289.0709 (-C ₉ H ₇ O ₂), 125.0233 (-C ₁₈ H ₁₄ O ₅)	[30]
Galloyl-(Epi)catechin-(Epi)catechin B-type linkage isomer 5	[M-H] ⁻	729.1458	C ₃₇ H ₂₉ O ₁₆	1.013	12.52	541.1138 (-C ₇ H ₈ O ₆), 451.1042 (-C ₁₃ H ₁₀ O ₇), 433.0936 (-C ₁₃ H ₁₂ O ₈), 425.0887 (-C ₁₅ H ₁₂ O ₇), 407.0776 (-C ₁₅ H ₁₄ O ₈), 289.0721 (-C ₂₂ H ₁₆ O ₁₀), 287.0563 (-C ₂₂ H ₁₈ O ₁₀), 271.0616 (-C ₂₂ H ₁₈ O ₁₂), 269.0461 (-C ₂₂ H ₂₀ O ₁₁), 169.0135 (-C ₃₀ H ₂₄ O ₁₁), 125.0234 (-C ₃₁ H ₂₄ O ₁₃)	[29]
(Epi)catechin-(Epi)catechin-(Epi)catechin-(Epi)catechin-(Epi)catechin-(Epi)gallocatechin B-type linkage isomer 3	[M-3H] ³⁻	869.1905	C ₁₃₅ H ₁₀₇ O ₅₅	5.957	12.53	863.1798 (-C ₉₀ H ₇₂ O ₃₇), 577.1362 (-C ₁₀₅ H ₈₂ O ₄₃), 575.1206 (-C ₁₀₅ H ₈₄ O ₄₃), 449.0882 (-C ₁₁₁ H ₉₀ O ₄₆), 441.0789 (-C ₁₁₃ H ₉₀ O ₄₅), 407.0763 (-C ₁₁₃ H ₉₂ O ₄₇), 303.0503 (-C ₁₂₀ H ₉₆ O ₄₈), 289.0721 (-C ₁₂₀ H ₉₄ O ₄₉), 287.0565 (-C ₁₂₀ H ₉₆ O ₄₉), 285.0401 (-C ₁₂₀ H ₉₈ O ₄₉), 269.0457 (-C ₁₂₀ H ₉₈ O ₅₀)	
Galloyl-(Epi)catechin-(Epi)catechin A-type linkage isomer 2	[M-H] ⁻	727.1348	C ₃₇ H ₂₇ O ₁₆	7.521	12.53	575.1212 (-C ₇ H ₄ O ₄), 557.1100 (-C ₇ H ₆ O ₅), 539.1041 (-C ₇ H ₈ O ₆), 449.0873 (-C ₁₃ H ₁₀ O ₇), 431.0801 (-C ₁₃ H ₁₂ O ₈), 407.0775 (-C ₁₅ H ₁₂ O ₈), 389.0672 (-C ₁₅ H ₁₄ O ₉), 289.0719 (-C ₂₂ H ₁₄ O ₁₀), 287.0563 (-C ₂₂ H ₁₆ O ₁₀), 271.0617 (-C ₂₂ H ₁₆ O ₁₁), 269.0455 (-C ₂₂ H ₁₈ O ₁₁), 169.0134 (-C ₃₀ H ₂₂ O ₁₁), 125.0233 (-C ₃₁ H ₂₂ O ₁₃)	[29]

(Epi)catechin-(Epi)catechin- (Epi)catechin AB-type linkage	[M-H] ⁻	863.1827	C ₄₅ H ₃₅ O ₁₈	1.100	12.62	737.1558 (-C ₆ H ₆ O ₃), 711.1359 (-C ₈ H ₈ O ₃), 577.1359 (-C ₁₅ H ₁₀ O ₆), 575.1192 (-C ₁₅ H ₁₂ O ₆), 573.1013 (-C ₁₅ H ₁₄ O ₆), 449.0872 (-C ₂₁ H ₁₈ O ₉), 425.0855 (-C ₂₃ H ₁₈ O ₉), 407.0755 (-C ₂₃ H ₂₀ O ₁₀), 289.0722 (-C ₃₀ H ₂₂ O ₁₂), 287.0562 (- C ₃₀ H ₂₄ O ₁₂), 269.0451 (-C ₃₀ H ₂₆ O ₁₃)	[27]
Galloyl-(Epi)catechin-(Epi)catechin- (Epi)catechin AB-type linkage	[M-H] ⁻	863.2051	C ₅₂ H ₃₉ O ₂₂	9.999	13.09	863.1784 (-C ₇ H ₄ O ₄), 575.1194 (-C ₂₂ H ₁₆ O ₁₀), 449.0875 (-C ₂₈ H ₂₂ O ₁₃), 407.0768 (- C ₃₀ H ₂₄ O ₁₄), 289.0720 (-C ₃₇ H ₂₆ O ₁₆), 287.0564 (-C ₃₇ H ₂₈ O ₁₆), 269.0458 (-C ₃₇ H ₃₀ O ₁₇)	[29]
(Epi)catechin-(Epi)afzelechin- (Epi)catechin AB-type linkage isomer 1	[M-H] ⁻	847.1932	C ₄₅ H ₃₅ O ₁₇	7.512	13.20	559.1289 (-C ₁₅ H ₁₂ O ₆), 433.0930 (-C ₂₁ H ₁₈ O ₉), 407.0790 (-C ₂₃ H ₂₀ O ₉), 289.0717 (- C ₃₀ H ₂₂ O ₁₁), 287.0543 (-C ₃₀ H ₂₄ O ₁₁), 269.0454 (-C ₃₀ H ₂₆ O ₁₂), 125.0235 (-C ₃₉ H ₃₀ O ₁₄)	[29]
(Epi)catechin ethyl dimer isomer 1	[M-H] ⁻	605.1677	C ₃₂ H ₂₉ O ₁₂	3.813	13.38	453.1169 (-C ₈ H ₈ O ₃), 315.0879 (-C ₁₅ H ₁₅ O ₆), 289.0722 (-C ₁₇ H ₁₆ O ₆), 125.0235 (-C ₂₆ H ₂₄ O ₉)	[35]
(Epi)catechin-(Epi)afzelechin A-type linkage isomer 1	[M-H] ⁻	559.1250	C ₃₀ H ₂₃ O ₁₁	2.704	13.78	433.0931 (-C ₆ H ₆ O ₃), 407.0775 (-C ₈ H ₈ O ₃), 289.0720 (-C ₁₅ H ₁₀ O ₅), 269.0458 (-C ₁₅ H ₁₄ O ₆), 125.0231 (-C ₂₄ H ₁₈ O ₈)	[29]
(Epi)catechin O-coumarate isomer 2	[M-H] ⁻	453.1101	C ₂₄ H ₁₉ O ₈	-0.048	14.26	341.0669 (-C ₆ H ₆ O), 289.0721 (-C ₉ H ₇ O ₂), 165.0186 (-C ₁₆ H ₁₄ O ₄), 125.0231 (-C ₁₈ H ₁₄ O ₅)	[30]
(Epi)catechin-(Epi)afzelechin- (Epi)catechin AB-type linkage isomer 2	[M-H] ⁻	847.1944	C ₄₅ H ₃₅ O ₁₇	8.881	14.64	559.1257 (-C ₁₅ H ₁₂ O ₆), 433.0933 (-C ₂₁ H ₁₈ O ₉), 407.0786 (-C ₂₃ H ₂₀ O ₉), 289.0721 (-C ₃₀ H ₂₂ O ₁₁), 287.0561 (-C ₃₀ H ₂₄ O ₁₁), 269.0450 (- C ₃₀ H ₂₆ O ₁₂), 125.0234 (-C ₃₉ H ₃₀ O ₁₄)	[29]
(Epi)catechin ethyl dimer isomer 2	[M-H] ⁻	605.1677	C ₃₂ H ₂₉ O ₁₂	3.813	14.96	453.1224 (-C ₈ H ₈ O ₃), 315.0877 (-C ₁₅ H ₁₅ O ₆), 289.0721 (-C ₁₇ H ₁₆ O ₆), 125.0232 (-C ₂₆ H ₂₄ O ₉)	[35]
(Epi)catechin-(Epi)afzelechin A-type linkage isomer 2	[M-H] ⁻	559.1266	C ₃₀ H ₂₃ O ₁₁	5.655	15.29	433.0932 (-C ₆ H ₆ O ₃), 407.0785 (-C ₈ H ₈ O ₃), 289.0718 (-C ₁₅ H ₁₀ O ₅), 269.0457 (-C ₁₅ H ₁₄ O ₆), 125.0228 (-C ₂₄ H ₁₈ O ₈)	[29]
(Epi)catechin O-coumarate isomer 3	[M-H] ⁻	453.1053	C ₂₄ H ₁₉ O ₈	-4.950	16.42	289.0720 (-C ₉ H ₇ O ₂), 165.0189 (-C ₁₆ H ₁₄ O ₄), 125.0231 (-C ₁₈ H ₁₄ O ₅)	[30]