

Supplemental Table 1 Summary of intensity values of biomarkers detected in negative ESI mode in rat plasma

Groups	Peak intensity (mean ± SD, n = 11)				
	Arachidonic acid	LysoPE(16:0/0:0)	P-cresol	Isorhamnetin	Quercetin-3-glucuronide
C	146.51±16.23	48.37±10.77	3.88±1.74	0	0
D	97.56±15.20**	77.24±14.67**	9.35±2.49**	0	0
D+Q1	113.19±20.57**	74.85± 9.48**	8.96±2.56**	1.65±1.02***##	3.19±1.79***##
D+Q2	118.13±32.48**	71.08±14.97**	8.68±3.83**	1.91±1.19***##	3.47±2.05***##
D+Q3	120.77±18.51*#	63.90±14.89##	6.51±2.26*#	2.28±1.13***##	3.87±1.72***##
Q1	146.71±22.90	48.80±10.08	3.87±1.82	1.76±1.01**	3.09±1.51**
Q2	146.42±18.51	48.32±12.31	3.88±1.77	2.11±1.07**	3.39±2.35**
Q3	146.71±24.79	48.71±15.24	3.88±1.82	2.34±1.10**	3.93±1.48**

Note: C, control group; D, DDVP-treated group; DQ1, low-dose quercetin plus DDVP-treated group; DQ2, middle-dose quercetin plus DDVP-treated group; DQ3, high-dose quercetin plus DDVP-treated group; Q1, low-dose quercetin-treated group; Q2, middle-dose quercetin-treated group; Q3, high-dose quercetin-treated group. Values expressed as mean±SD(n=11). *Significantly different from control rats at P < 0.05(ANOVA), **Significantly different from control rats at P <0.01(ANOVA), #Significantly different from DDVP rats at P < 0.05(ANOVA), ##Significantly different from DDVP rats at P < 0.01(ANOVA).

Supplemental Table 2 Summary of intensity values of biomarkers detected in positive ESI mode in rat plasma

Groups	Peak intensity (mean ± SD, n = 11)					
	LysoPC(16:0/0:0)	LysoPC(0:0/18:0)	LysoPC(15:0/0:0)	Sphingosine	C16 Sphinganine	Tryptophan
C	84.55±0.83	352.51±28.38	74.25±1.16	153.07±19.42	6.23±1.30	20.02±5.62
D	86.17±0.67**	404.98±14.41**	77.10±1.32**	113.13±13.44**	3.16±0.99**	28.94±3.47**
D+Q1	85.78±0.71**	400.23±28.31**	76.89±1.73**	124.60±16.55**	3.04±1.42**	25.39±3.91**
D+Q2	85.65±0.66**	396.65±10.50**	76.82±1.36**	127.40±28.19**	3.40±1.62**	25.12±2.56**
D+Q3	85.36±0.84*#	376.84±14.79*#	75.63±1.55*#	134.05±11.96*#	4.77±1.41*#	24.53±4.11*#
Q1	84.54±0.81	353.89±26.60	74.35±1.09	152.92±15.06	6.21±1.58	20.50±3.41
Q2	84.74±0.47	354.55±23.61	74.29±0.82	153.01±19.49	6.24±1.75	20.16±3.51
Q3	84.59±0.57	352.54±24.39	74.43±1.14	153.03±12.27	6.23±0.87	20.21±3.71

Note: C, control group; D, DDVP-treated group; DQ1, low-dose quercetin plus DDVP-treated group; DQ2, middle-dose quercetin plus DDVP-treated group; DQ3, high-dose quercetin plus DDVP-treated group; Q1, low-dose quercetin-treated group; Q2, middle-dose quercetin-treated group; Q3, high-dose quercetin-treated group. Values expressed as mean±SD(n=11) *Significantly different from control rats at P < 0.05(ANOVA), **Significantly different from control rats at P <0.01(ANOVA), #Significantly different from DDVP rats at P < 0.05(ANOVA), ##Significantly different from DDVP rats at P < 0.01(ANOVA).