

Supplementary table 1 Potential biomarkers of differentially expressed metabolites in ovariectomy-induced osteoporosis in female wistar rats using plasma metabolomics strategy.

No.	Rt(min)	Ion form	m/z	Proposed compound	Formula	Trend in model
1	3.67	M+H	516.30	Taurocholic acid	C ₂₆ H ₄₅ NO ₇ S	↑
2	3.80	M+H	466.32	Glycocholic acid	C ₂₆ H ₄₃ NO ₆	↑
3	9.89	M-H	327.23	Docosahexaenoic acid	C ₂₂ H ₃₂ O ₂	↓
4	5.88	M+H	482.33	LysoPC(15:0)	C ₂₃ H ₄₈ NO ₇ P	↑
5	10.57	M+H	552.41	LysoPC(20:0)	C ₂₈ H ₅₈ NO ₇ P	↑
6	11.21	M+H	133.09	Leucinic acid	C ₆ H ₁₂ O ₃	↓
7	11.17	M-H	255.23	Palmitic acid	C ₁₆ H ₃₂ O ₂	↓
8	0.55	M-H	145.10	L-Lysine	C ₆ H ₁₄ N ₂ O ₂	↓
9	11.42	M+H	305.25	Arachidonic acid	C ₂₀ H ₃₂ O ₂	↑
10	3.90	M+H	347.22	Corticosterone	C ₂₁ H ₃₀ O ₄	↑
11	8.77	M+H	482.33	LysoPE(18:0/0:0)	C ₂₃ H ₄₈ NO ₇ P	↓
12	8.43	M-H	508.34	LysoPE(20:0/0:0)	C ₂₅ H ₅₂ NO ₇ P	↓
13	4.22	M+H	834.61	PS(15:0/24:0)	C ₄₅ H ₈₈ NO ₁₀ P	↓
14	1.72	M+H	132.10	L-Isoleucine	C ₆ H ₁₃ NO ₂	↑
15	9.90	M-H	253.22	Palmitoleic acid	C ₁₆ H ₃₀ O ₂	↑
16	11.19	M+H	301.22	4-Oxoretinol	C ₂₀ H ₂₈ O ₂	↓
17	0.72	M-H	89.02	Glyceraldehyde	C ₃ H ₆ O ₃	↓
18	4.22	M-H	407.28	Ursocholic acid	C ₂₄ H ₄₀ O ₅	↑