

**A highly sensitive high performance liquid chromatography-electrochemical detection method
for the determination of five phenolic compounds from *Salvia miltiorrhiza***

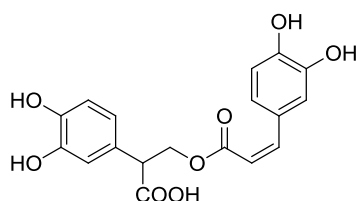
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1. Thermo Fisher Scientific Corporation, Beijing100080, China;

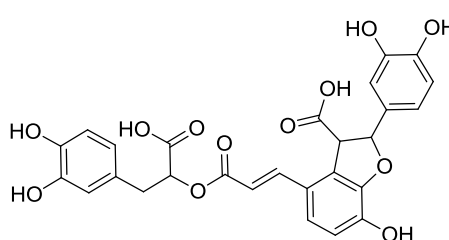
2. Thermo Fisher Scientific Corporation, Chelmsford 01824, USA;

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Chinese Academy of Sciences, Dalian 116023, China**

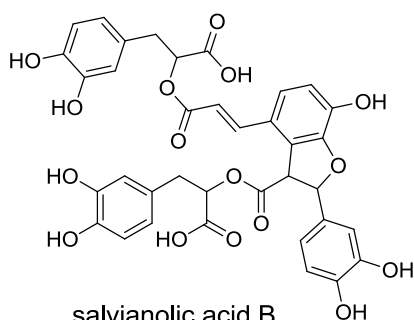
Supporting Information 1



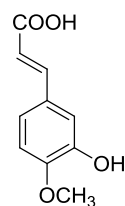
rosmarinic acid



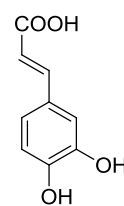
lithospermic acid



salvianolic acid B



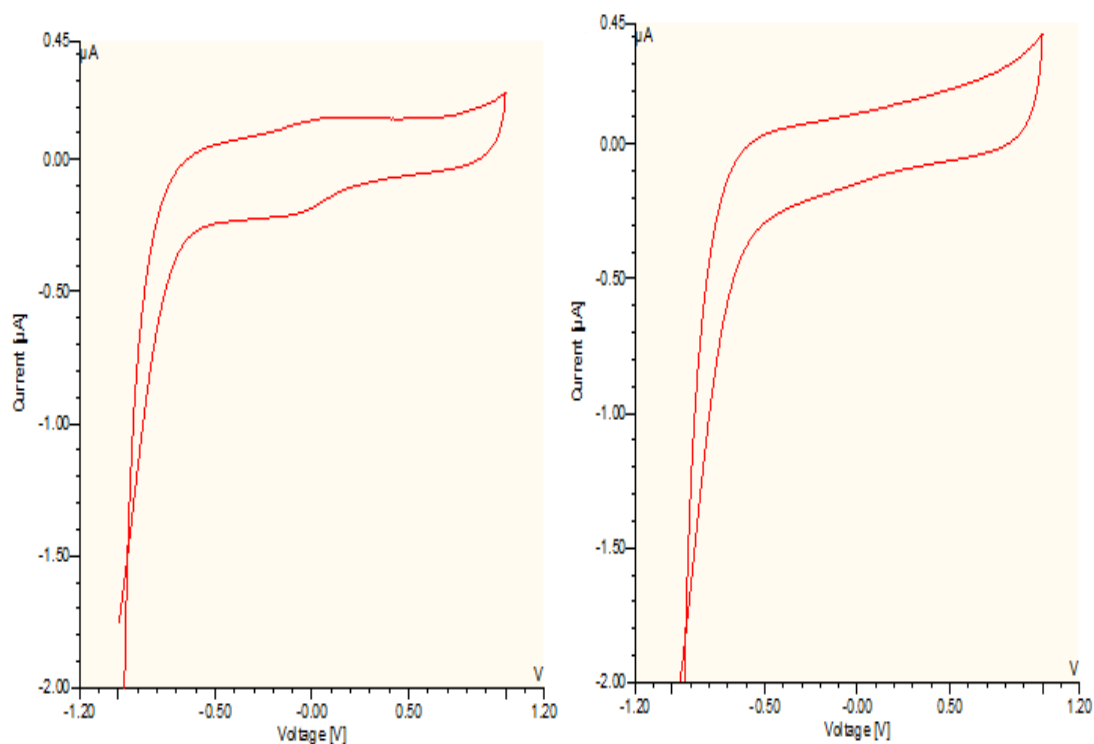
isoferulic acid



caffeic acid

Structures of five phenolic compounds

Supporting Information 2



Cyclic voltammograms obtained with phosphate (left) and acetate (right)

Supporting Information 3

Retention behaviors of phenolic compounds obtained with different pH values and buffer concentrations

No.	pH 2.8						pH 4.8					
	20 mmol/L			30 mmol/L			30 mmol/L			40 mmol/L		
	t_R /min	A_s	N	t_R /min	A_s	N	t_R /min	A_s	N	t_R /min	A_s	N
1	8.65	1.06	30791	8.64	1.04	30028	5.13	0.58	1631	5.11	0.60	3697
2	15.45	1.01	63178	15.45	1.01	62212	5.78	0.77	9445	6.18	0.89	16232
3	16.74	1.01	93329	16.79	0.99	90796	8.05	0.92	32285	8.73	1.03	32062
4	17.29	0.99	100687	17.36	0.99	97460	8.30	1.01	31688	9.27	0.99	31984
5	18.82	1.02	117195	18.91	1.02	114013	9.84	0.61	10812	10.41	0.64	16225

Note: The compounds numbered 1, 2, 3, 4, 5 are caffeic acid, isoferulic acid, rosmarinic acid, lithospermic acid and salvianolic acid B, respectively. t_R : retention time; A_s : asymmetry factor; N : theoretical plates.