Supporting Information

Rinsing tea before brewing decreases pesticide residues in tea infusion

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Supporting information:

Table S1. The parameters for analysis of 5 pesticide residues by HPLC-MS/MS and of 3 pesticides by GC-MS/MS.

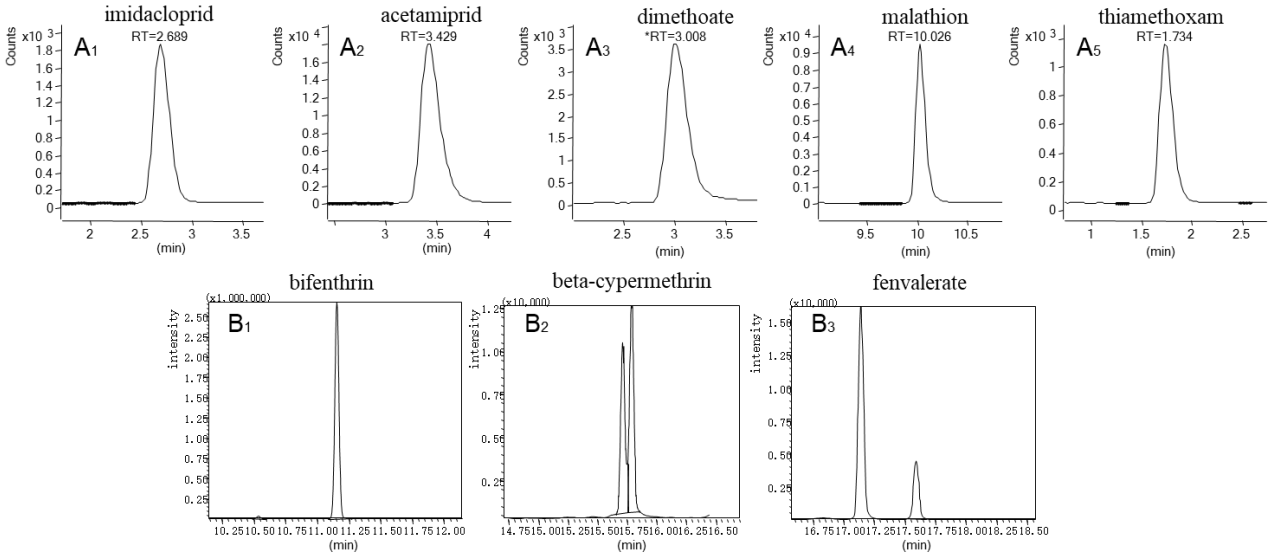
Figure S1. Multiple reaction monitoring chromatograms for blank green tea infusion spiked at 0.005 μg mL^{-1} of 5 pesticides (acetamiprid, imidacloprid, thiamethoxam, dimethoate and malathion) for HPLC-MS/MS analysis (A) and at 0.01 μg mL^{-1} of 3 pesticides (bifenthrin, beta-cypermethrin and fenvalerate) for GC-MS/MS analysis (B).

Table S1. The parameters for analysis of 5 pesticide residues by HPLC-MS/MS and of 3 pesticides by GC-MS/MS.

HPLC-MS/MS						
Pesticide	Rt (min)	ion transitions (m/z)	CE (eV)	ion transitions (m/z)	CE (eV)	fragmentor
imidacloprid	2.689	256.1 > 209.0	13	256.1 > 175.1	13	106
acetamiprid	3.429	223.1 > 126.0	21	223.1 > 56.1	13	102
dimethoate	3.008	230.0 > 199.0	5	230.0 > 171.0	10	80
malathion	10.026	331.1 > 127.0	5	331.1 > 99.0	10	80
thiamethoxam	1.734	292.1 > 211.1	6	292.1 > 181.2	22	76

GC-MS/MS							
Pesticide	Rt (min)	ion transitions (m/z)	CE (eV)	ion transitions (m/z)	CE (eV)	ion transitions (m/z)	CE (eV)
bifenthrin	11.145	181.1 > 166.1	12	181.1 > 153.1	8	181.1 > 179.1	12
beta-cypermethrin	15.711 15.784	181.1 > 152.1	22	181.1 > 127.1	22	181.1 > 77.0	24
fenvalerate	17.125 17.575	225.1 > 147.1	10	225.1 > 119.1	20	419.1 > 125.1	6

Rt: retention time; CE: collision energy



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