



**Figure S1.** Typical GC-ECD chromatograms of fenpropathrin, lambda-cyhalothrin, beta-cypermethrin, and fenvalerate in infused tea.

**Table S1.** Recovery ratios and RSDs of pyrethroids by different extraction solvents ( $n = 3$ )

Pesticides	Acetonitrile		Methanol		Acetone	
	Average recovery $\pm$ SD <sup>a</sup> (%)	RSD (%) <sup>b</sup>	Average recovery (%)	RSD (%)	Average recovery (%)	RSD (%)
Fenpropathrin	78.2 $\pm$ 4.6	3.24	45.3 $\pm$ 1.9	4.33	74.2 $\pm$ 4.0	6.22
Lambda-cyhalothrin	77.4 $\pm$ 5.7	4.23	51.2 $\pm$ 5.5	3.23	70.1 $\pm$ 2.1	2.39
Beta-cypermethrin	80.2 $\pm$ 9.3	5.22	47.6 $\pm$ 9.3	6.44	76.1 $\pm$ 2.6	4.38
Fenvalerate	82.4 $\pm$ 4.4	3.42	55.8 $\pm$ 3.2	4.97	68.3 $\pm$ 9.7	4.32

<sup>a</sup>Standard deviation; <sup>b</sup> Relative standard deviation for reproducibility in %.

**Table S2.** Dependence of recovery ratios of the four pyrethroids on the volume of elution solvent ( $n = 3$ )

Pesticides	Recoveries of fraction 1 (%)	Recoveries of fraction 2 (%)	Recoveries of fraction 3 (%)	Recoveries of fraction 4 (%)	Recoveries of Fraction 5 (%)	Recoveries of Sum (%)
Fenpropathrin	$20.3 \pm 1.7^{\text{a}}$	$50.8 \pm 3.8$	$15.2 \pm 3.6$	ND <sup>b</sup>	ND	86.3
Lambda-cyhalothrin	$14.5 \pm 0.7$	$64.3 \pm 8.4$	$9.2 \pm 1.0$	$1.2 \pm 0.5$	ND	89.2
Beta-cypermethrin	$27.3 \pm 1.4$	$61.3 \pm 4.9$	$5.4 \pm 1.3$	ND	ND	94.0
Fenvvalerate	$26.8 \pm 2.9$	$45.2 \pm 6.2$	$19.5 \pm 4.5$	$2.3 \pm 1.1$	ND	93.8

<sup>a</sup> mean residual rate  $\pm$  Standard deviation (SD) (%); <sup>b</sup> Not detected.

**Table S3.** Transfer rate of the four pyrethroids in different herbal teas and corresponding physicochemical properties

Pesticides	transfer ratio ± SD <sup>a</sup> %				Ws <sup>b</sup> (mg·L <sup>-1</sup> ) (25°C)	LogK <sub>ow</sub> <sup>c</sup>
	Wolfberry	Licorice	Honeysuckle	Chrysanthemum		
Fenpropathrin	4.02 ± 0.85 a <sup>d</sup>	3.04 ± 0.16 a	5.76± 0.33 b	5.64± 0.32 b	1.4×10 <sup>-2</sup>	5.7
Lambda-cyhalothrin	2.33 ± 0.26 a	1.34 ± 0.21 a	3.54± 0.41 b	3.76± 0.18 b	4.0×10 <sup>-9</sup>	7.0
Beta-cyhalothrin	3.45 ± 0.35 a	2.56 ± 0.15 a	5.21± 0.22 b	5.20± 0.42 b	9.3×10 <sup>-5</sup>	6.0
Fenvalerate	3.15 ± 0.18 a	2.23 ± 0.10 a	4.95± 0.40 b	4.76± 0.13 b	3.2×10 <sup>-5</sup>	6.2

<sup>a</sup> Standard deviation; <sup>b</sup> water solubility; <sup>c</sup> Octanol-water partition coefficient; <sup>d</sup> Different lower case letters at the top of the columns mean significant differences in the transfer ratio at a *p* value of 0.05. Ws and LogK<sub>ow</sub> were obtained from Tomlin, 1997.

**Table S4.** Estimated exposure risk to the four pyrethroids from honeysuckle, chrysanthemum, wolfberry, and licorice tea.

Matrix	Pesticides	MRL <sup>a</sup> (mg kg <sup>-1</sup> )	ADI <sup>b</sup> (mg kg <sup>-1</sup> bw <sup>-1</sup> )	Transfer ratio <sup>c</sup> (%)	EER
Fenpropathrin	Wolfberry			6.74	0.21
	Licorice			6.95	0.18
	Honeysuckle	5	30	7.65	0.29
	Chrysanthemum			7.11	0.18
Lambda-cyhalothrin	Wolfberry			5.38	0.25
	Licorice			3.28	0.13
	Honeysuckle	0.5	2	5.70	0.33
	Chrysanthemum			4.49	0.17
Beta-cyhalothrin	Wolfberry			6.43	0.0030
	Licorice			5.78	0.0022
	Honeysuckle	0.05	20	6.52	0.0038
	Chrysanthemum			7.66	0.0029
Fenvalerate	Wolfberry			5.21	0.027
	Licorice			6.57	0.029
	Honeysuckle	0.2	7	6.19	0.041
	Chrysanthemum			5.59	0.025

<sup>a</sup> Maximum residue limit, MRL values of lambda-cyhalothrin and beta-cyhalothrin were obtained from the EU and Japan, respectively, and others were obtained from the GB 2763-2014, China (National Food Safety Standard-maximum residue limits for pesticides in food); <sup>b</sup> Acceptable daily intake; <sup>c</sup> Obtained from the total transfer ratios of the first, second and third infusions.