

Supplementary materials

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11 **Table S1** Positive ion A gradient elution conditions

step	Total time (min)	A (%)	B (%)	flow rate
1	0.00	90	3	0.4
2	1.00	90	3	0.4
3	1.10	60	15	0.4
4	9.50	40	75	0.4
5	9.60	10	95	0.4
6	11.50	10	95	0.4
7	11.60	90	3	0.4
8	13.00	97	3	0.4

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Table S2 Positive ion B gradient elution conditions

step	Total time (min)	A (%)	B (%)	flow rate
1	0.00	90	10	0.3
2	0.50	90	10	0.3
3	3.00	60	40	0.3
4	6.00	40	60	0.3
5	6.50	10	90	0.3
6	8.00	10	90	0.3
7	8.20	90	10	0.3

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Table S3 Negative ion gradient elution conditions

step	Total time (min)	A (%)	B (%)	flow rate
1	0.00	80	20	0.5
2	0.50	80	20	0.5
3	2.80	2	98	0.5
4	4.00	2	98	0.5
5	4.10	80	20	0.5
6	6.00	80	20	0.5

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20 **Table S4** Mass spectrometry conditions in MRM mode

condition	positive ions	negative ions
electrospray voltage (V)	5500	-4500
curtain air pressure (psi)	30 psi	30 psi
ion source atomizer temperature (°C)	600°C	600°C
atomizing gas pressure (psi)	50 psi	50 psi
auxiliary gas pressure (psi)	60 psi	60 psi
Ihe	on	on

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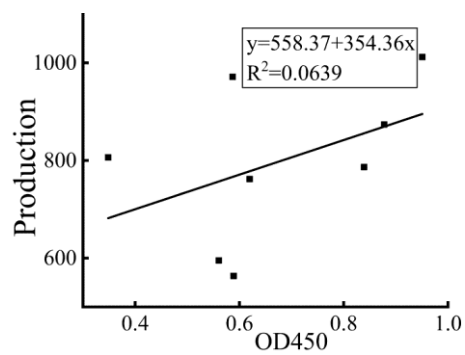
23 **Table S5** Concentration (µg/kg) of antimicrobial and metabolite residues in mung
24 bean sprouts from market survey (n=36, mean ±standard deviation)

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residues	positive samples	positive ratio	concentration
chloramphenicol	1	2.78%	9.31
enrofloxacin	8	22.22%	193.23± 98.42
AOZ	5	13.89%	2.88± 1.93

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29 **Figure S1**Correlation between production of mung bean sprouts and OD450 in

30 circulating water in 96h

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