

Supplementary material for

Distribution of antibiotic resistant bacteria in different soil types following manure application

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Table S1 Changes of physical and chemical properties of different soil types

Treatments	pH	EC ($\mu\text{S}/\text{cm}$)	TN (g/kg)	TP (mg/kg)	OM (g/kg)	CTC ($\mu\text{g}/\text{kg}$)
S1	8.31 \pm 0.07a	103.17 \pm 9.32a	1.23 \pm 0.00a	3.29 \pm 0.01b	37.45 \pm 0.26a	-
S1M	8.33 \pm 0.02a	106.43 \pm 3.23a	1.30 \pm 0.01a	3.36 \pm 0.03a	35.83 \pm 0.12c	-
S1MA	8.35 \pm 0.03a	112.27 \pm 8.15a	1.17 \pm 0.12a	3.36 \pm 0.00a	36.57 \pm 0.37b	24.48 \pm 1.67
S2	8.36 \pm 0.04a	85.23 \pm 5.42b	0.66 \pm 0.05a	1.86 \pm 0.03b	14.03 \pm 0.41a	-
S2M	8.36 \pm 0.04a	72.03 \pm 6.75c	0.57 \pm 0.02ab	1.91 \pm 0.02ab	14.05 \pm 0.16a	-
S2MA	8.36 \pm 0.04a	99.70 \pm 7.37a	0.52 \pm 0.06a	1.94 \pm 0.02a	13.90 \pm 0.01a	16.87 \pm 0.54
S3	5.67 \pm 0.03a	39.43 \pm 2.75a	0.62 \pm 0.06a	1.46 \pm 0.01c	12.86 \pm 0.21b	-
S3M	5.58 \pm 0.02a	30.80 \pm 0.44b	0.63 \pm 0.02a	1.57 \pm 0.00a	13.91 \pm 0.07a	-
S3MA	5.56 \pm 0.03a	29.20 \pm 2.52b	0.57 \pm 0.02a	1.53 \pm 0.01b	13.70 \pm 0.32a	2.26 \pm 0.51

Note: “-” indicates no detection.

Table S2 Two-factor analysis of soil type (ST) and manure treatment (MT) on physical and chemical properties

Factors	Degree of freedom (DF)	pH	EC	TN	TP	OM
		sig.	sig.	sig.	sig.	sig.
ST	2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MT	2	0.252	0.004	0.005	< 0.001	0.327
ST×MT	4	0.032	0.001	0.152	0.050	< 0.001

Note: "sig. < 0.05" indicated a significant influence; "sig. < 0.01" indicated highly significant influence.

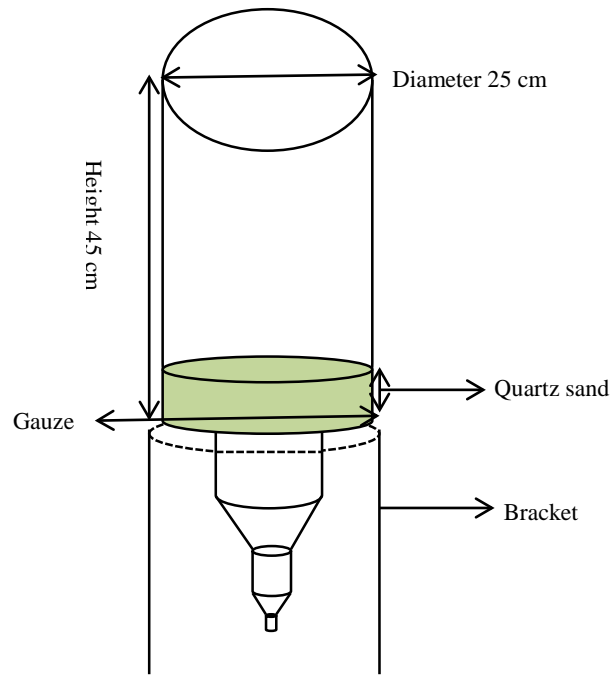


Figure S1 Design of soil column device

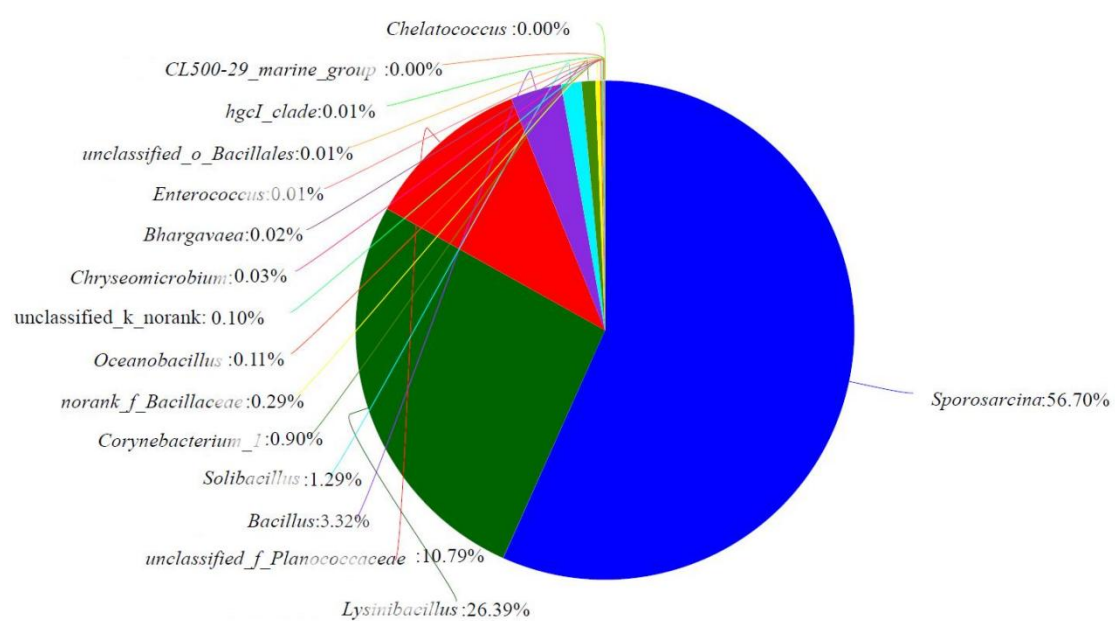


Figure S2 Relative abundance of chlortetracycline-resistant bacteria in manure