Strain	N	MIC (μg mL <sup>-1</sup> )		
		ZO	AZO	AZM
	1	500 220 62.5 7.8 0 0	500 220 82.5 31.25 7.8 3.9 7.8 3.9 7.8 3.9 0 0	500 250 11565 1156
ATCC 25922	2	500 220 122 31.25 7.8 3.9 0 0	500 230 125 31.25 31.25 31.25 31.25 3.9 7.78 3.9 7.78 3.9	500 521 521 521 521 521 521 521 521 521 521
	3	500 125 125 1563 1563 1563 1563 1563 1563 1563 156	500 250 252 31.25 31.25 31.25 31.25 31.25 31.25 31.25 31.25 3.2 3 3 0 0	500 250 31.25 3.3 3.9 7.8 3.9 7.8 3.9 7.7 3.9 7.7 3.9 7.7 7.8 3.9 7.7 7 7 7 8 7 7 7 7 8 7 7 7 7 7 7 7 7 7
	1	500 230 125 62.5 31.25 7.8 7.8 7.8 7.8 7.9 0	500 220 125 92.5 92.5 91.52 7.8 3.9 7.8 3.9 7.8	500 250 125 125 125 125 125 125 125 125 125 125
CCARM 1011	2	500 250 125 82.5 31.25 31.25 15.63 7.8 0	500 250 125 62.5 31.25 13.63 7.8 7.8	500 2250 125 31.25 7.8 7.8 0
	3	500 250 125 62.5 31.25 7.8 0	500 250 125 62.5 31.25 7.8 7.8 7.8	250 125 82.5 31.25 7.8 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
	1	250 125 62.5 31.25 7.8 3.9 0	280 125 82.5 31.25 7.8 3.9 0	250 125 82.5 1.5 83 7.8 7.8 3.9 0
CCARM 1013	2	500 250 62.5 31.25 7.8 0	500 250 125 31.25 7.8 7.8 0	500 230 82.5 31.25 7.8 0
	3	500 250 62.5 31.25 7.8 0	500 280 9125 9125 9125 9125 9125 91563 9125 91563 9166 9167 9167 9167 9167 9167 9167 9167	500 2250 92.5 91.25 91.25 91.25 7.8 7.8 7.8
	1	500 250 125 62.5 31.25 7.81 0	500 220 125 62.5 31.25 7.81 7.81 7.81 7.81 7.81	500 250 125 31.25 7.81 0
CCARM 1368	2	500 250 125 62.5 62.5 31.25 0	500 250 125 62.5 62.5 31.25 0	500 250 125 62.5 31.25 0
	3	500 250 125 62.5 62.5 0	500 250 125 62.5 31.25 0	500 250 125 62.5 31.25 0
	1	500 2.89 11.25 62.5 31.25 7.81 7.81 7.81 0	500 2260 125 62.5 31.25 7.81 0	500 230 125 82.5 31.25 31.25 7.31 0
CCARM 1381	2	500 250 125 62.5 31.25 31.25	500 250 62.5 31.25 0 0	500 250 125 62.5 31.25 0
	3	500 250 125 62.5 31.25 0 31.25	500 250 125 62.5 31.25 0	500 250 125 62.5 31.25 0
ATCC BAA- 2452	1	250 125 82.5 31.25 7.8 3.9 7.8	250 125 62.5 7.8 3.9 0	250 125 82.5 31.25 15.63 7.8 3.9 7.8

	2	250 125 62.5 31.25 15.63 7.8	250 125 62.5 31.25 7.8 7.8 7.8 7.8	250 125 62.5 31.25 7.8 7.8 3.9
	3	250 125 62.5 31.25 15.63 7.8 3.9 0	250 125 62.5 31.25 7.8 3.9 7.8 3.9 7.8 3.9	250 125 31.25 15.63 7.8 7.8 7.8 9 0
	1	250 125 62.5 31.25 7.8 3.9 0	250 125 62.5 31.25 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	250 125 62.5 31.25 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8
ATCC BAA 2469	2	250 125 82.5 31.25 7.8 7.8 3.9 0	250 125 62.5 31.25 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	250 125 62.5 31.25 15.63 3.9 7.8 3.9
	3	250 125 62.5 31.25 15.63 7.8 7.8 0	280 125 82.5 15.63 7.8 3.9 7.8 7.8 0	260 125 31,25 7,8 3,9 0
	1	500 220 1125 62.5 31.25 7.8 3.9 7.8 3.9 7.8 3.9 0	500 250 82.5 81.25 81.25 7.8 7.8 7.8 7.8 7.8 0	500 229 31.25 7.8
ATCC BAA- 2471	2	250 125 62.5 31.25 7.8 3.9 0	250 125 82.5 31.25 7.8 7.8 7.8 7.8	250 125 62.5 31.25 7.8 
	3	250 125 62.5 31.25 7.8 3.9 0	250 125 62.5 31.25 7.8 3.9 7.8 3.9	250 125 62.5 115.63 7.8 3.9
	1	500 250 92.5 92.5 92.5 92.5 93.1.25 92.5 93.1.25 92.5 93.1.25 93.1.25 94.1 94.1 94.1 94.1 94.1 94.1 94.1 94.1	500 250 125 62.5 31.25 31.25 7.8 7.8 7.8	500 250 62.5 7.8 0 0
NCCP 16283	2	500 250 125 62.5 7.8 7.8 0	500 250 125 62.5 31.25 15.63 7.8 7.8 0	500 220 62.5 31.25 7.8 0 7.8
	3	500 250 125 62.5 31.25 7.8 7.8 0	500 250 125 62.5 31.25 31.25 7.8 7.8 7.8	500 250 62.5 31.25 7.8 0 7.8
	1	500 250 125 62.5 31.25 7.8 7.8 7.8	500 250 125 62.5 31.25 7.8 7.8 7.8 7.8	500 250 125 62.5 31.25 7.8 7.8 7.8 7.8
NCCP 16284	2	500 250 125 62.5 31.25 7.8 0	500 2200 125 62.5 31.25 15.63 15.63	500 280 125 62.5 31.25 7.8 7.8 0
	3	500 250 62.5 31.25 62.5 7.8 7.8 0	500 250 125 82.5 31.25 15.63 7.8 7.8	500 250 62.5 31.25 7.8 0

**Fig S1**. Minimum inhibitory concentrations (MICs) of ZO, AZO, and AZM against multidrug-resistant (MDR) *E. coli*. The image of MIC results in 96-well were photographed. The pink color indicates the bacterial growth, while white precipitates shown in the wells indicate the insoluble nanoparticles based on the colored reactions using AlamarBlue<sup>TM</sup>. N indicates the number of repeats.



**Fig S2**. Bactericidal activity of ZO, AZO and AZM against multidrug-resistant (MDR) *E. coli* (ATCC BAA-2471). Aliquots (10  $\mu$ L) of bacterial cell lysates treated with materials at indicated concentrations were spotted onto LB agar plate and incubated at 37 °C for 24 h. The plate was imaged by ChemiDoc MP® imaging system and processed by Image Lab Software (Bio-Rad, CA, USA). One of the triplicate data was shown here.