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Electronic Supporting Information

Standard curve of SMX:

Prepare standard solutions of SMX at the concentrations of 10, 20, 30, 40 and 50 mg L^{-1} . Use HLPC to measure these standard concentrations of SMX to obtain the peak area. On the basis of the peak area and corresponding concentrations of SMX, the standard curve of SMX can be drawn (Figure S1).





Table S1	SMX-deg	grading a	strains a	and their	corresr	onding	biodeg	radability	v abilit	V
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Strain	Таха	Degradation	Optimal	
		rate	degradation	
			temperature	
Phanerochaete chrysosporium	Fungi	74 %	35 ℃	
Achromobacter denitrificans PR1	Bacterium	99.1 %	30 ℃	
Pseudomonas psychrophila HA-4	Bacterium	Bacterium 34.3 %		
Rhodococcus rhodochrous	Bacterium	20 %	26 ℃	
Bjerkandera adusta	Fungi	64-80 %	22 ±2 ℃	

As shown in Table S1, there are various SMX-degrading strains, some of which demonstrate high biodegradability of SMX. But most biodegradation experiments are conducted in a water environment. Accelerating research of SMX degradation in the soil environment is a priority.

The UPLC-Q-TOF spectra of proposed SMX biodegradation metabolites can be seen in the following figures.





































HPLC-MS spectrum analysis of the transformation products of SMA in soil