

Supplementary data for

Effects of different N-acyl homoserine lactones on the performance of high ammonia nitrogen wastewater treatment: a bioaugmentation strategy at room and low temperatures

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Table captions

Table S1 Formula of nutrient elements in synthetic wastewater.

Table S2 Fluorescence characteristics of peak value of EPS after 30 days of operation.

Table S1 Formula of nutrient elements in synthetic wastewater.

Components	Concentration /(mg·L ⁻¹)	Components	Concentration /(mg·L ⁻¹)
(NH ₄) ₂ SO ₄	141~1414 ^a	FeCl ₂ ·4H ₂ O	1.988
NaCl	585	MnCl ₂ ·2H ₂ O	0.081
KH ₂ PO ₄	54	NiCl ₂ ·6H ₂ O	0.024
KCl	75	CoCl ₂ ·6H ₂ O	0.024
CaCl ₂ ·2H ₂ O	74	CuCl ₂ ·6H ₂ O	0.017
MgSO ₄ ·7H ₂ O	49	ZnCl ₂	0.068
Na ₂ MoO ₄ · 2H ₂ O	0.024	Na ₂ EDTA	4.292

^a(NH₄)₂SO₄ was the only source of NH₄⁺-N in the reactor, (1) NH₄⁺-N in cultivation phase: 50~200 mg·L⁻¹; (2) NH₄⁺-N in room temperature: 200~300 mg·L⁻¹; (3) NH₄⁺-N in low temperature: 100~200 mg·L⁻¹.

After 30 days of culture, the concentrations of NH₄⁺-N and NO₂⁻-N in effluent were both less than 1 mg L⁻¹, and NO₃⁻-N gradually accumulated in the parent reactor.

Table S2 Fluorescence characteristics of peak value of EPS after 30 days of operation.

Groups	Peak A		Peak B		Peak C		Peak D	
	EM/EX (nm)	Intensity	EM/EX (nm)	Intensity	EM/EX (nm)	Intensity	EM/EX (nm)	Intensity
R1	350/280	2191.330	310/230	961.090	345/230	905.709	445/360	123.636
R2	350/280	2694.712	305/230	1152.396	345/230	1113.872	445/360	146.484
R3	350/280	2522.727	305/230	985.565	345/230	953.636	445/360	143.658
R4	350/280	2822.068	305/230	1069.551	345/230	1076.151	445/360	157.795
R5	350/280	2662.464	305/230	1108.200	345/230	1062.280	445/360	143.733
R6	350/280	2355.464	305/230	967.258	345/230	932.144	445/360	130.206
L1	350/280	2395.464	305/230	1091.200	345/230	1002.640	445/360	138.267
L2	350/280	2876.785	305/230	1158.428	345/230	1156.532	445/360	148.140
L3	350/280	2613.870	305/230	1009.354	345/230	1026.222	445/360	149.451
L4	350/280	2653.464	305/230	1135.200	345/230	1128.210	445/360	142.995
L5	350/280	2721.428	305/230	1119.132	345/230	1120.328	445/360	153.463
L6	350/280	2353.763	305/230	907.235	345/230	916.129	445/360	132.966