

Table S1. Composition of modified AF-6 medium

Components	Content (g/L)	Components	Content (g/L)	Components	Content (g/L)
CH ₃ COONa	1.00	MgSO ₄ ·7H ₂ O	0.3	Ferric citrate	0.002
NaNO ₃	0.14	Thiamine	0.1	Na ₂ EDTA	0.75
		HCl			
(NH ₄) ₂ HPO ₄	0.20	Vitamin B6	0.1	MnCl ₂ ·4H ₂ O	0.041
K ₂ HPO ₄	0.005	Biotin	0.2	ZnCl ₂ ·7H ₂ O	0.005
KH ₂ PO ₄	0.01	Vitamin B12	0.1	Na ₂ MoO ₄ ·2H ₂ O	0.004
CaCO ₃	0.01	Citric acid	0.002	FeCl ₃ ·6H ₂ O	0.097
CaCl ₂ ·2H ₂ O	0.01	CoCl ₂ ·6H ₂ O	0.002	-	-

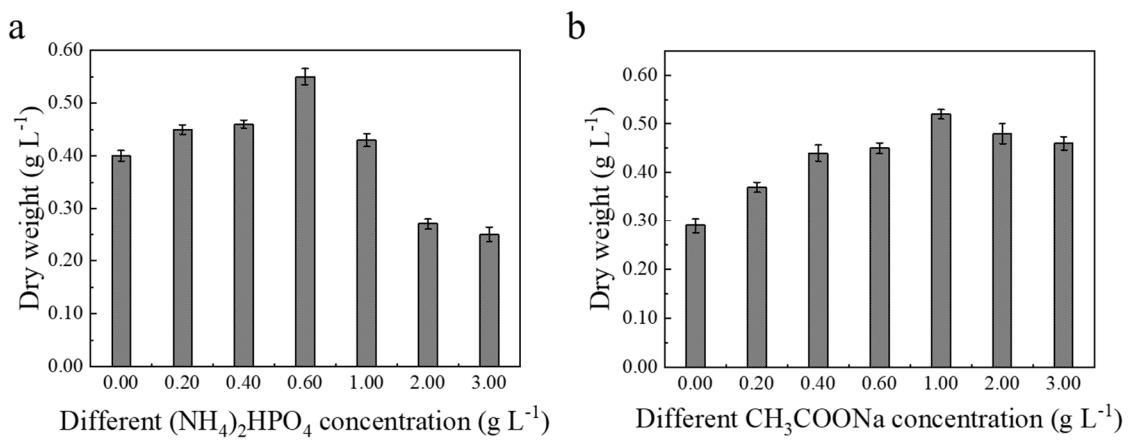


Figure S1. The optimization of diammonium phosphates and sodium acetate concentration after 14 days cultivation. (a: Diammonium phosphates; b: Sodium acetate.) Data were shown as mean \pm standard deviation ($n = 3$).

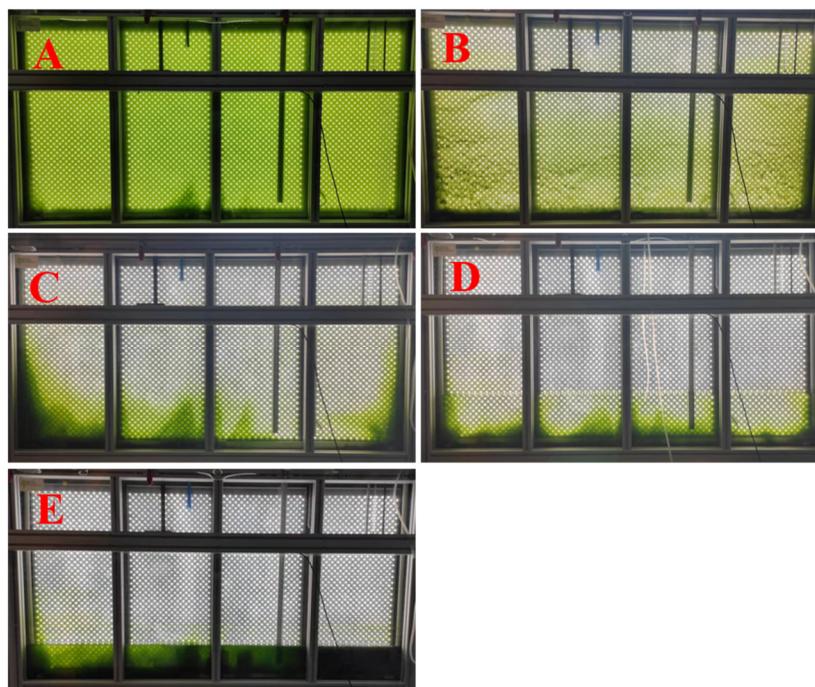


Figure S2. Natural sedimentation of *E. pisciformis* AEW501 during harvest in a 120 L PBR. (Stop ventilation time: A: 0 min; B: 5 min; C: 20 min; D: 40 min; E: 60 min.)

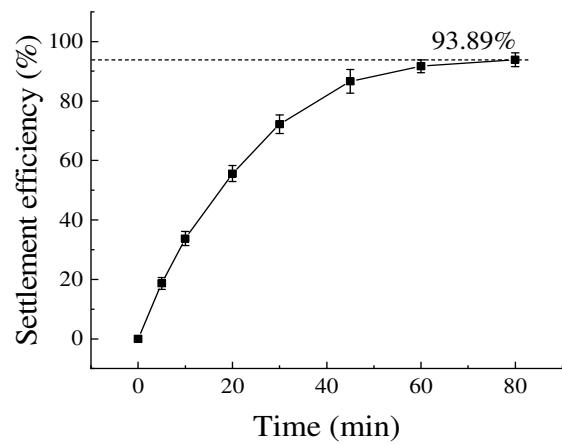


Figure S3. The settling efficiency of *E. pisciformis* AEW501 during harvest.