

Table S2 FT-IR spectral characteristics of the main functional groups in EPS under different concentrations of estriol (E3) addition (0, 0.1, 1, and 10 mg/L) at the end of the experiment.

Functional group	E3 concentration (mg/L)	Wavelength (cm ⁻¹)	Transmittance (%)
O–H and N–H in carbohydrates and amide	0	3401	97.43
	0.1	3412	85.64
	1	3426	95.55
	10	3362	98.57
C=O of amide I	0	1645	97.64
	0.1	1651	89.44
	1	1636	97.79
	10	1647	98.32
N–H and C–N of amide II	0	1520	97.46
	0.1	1531	93.85
	1	1530	98.80
	10	1526	98.22
COO ⁻	0	1412	97.26
	0.1	1410	92.86
	1	1420	98.66
	10	1410	98.42
C–O in PS	0	1115	98.11
	0.1	1096	93.12
	1	1094	97.34
	10	1097	96.77