

## Supporting Information

Yeast extract affecting the transformation of biogenic tooeleite and its stability

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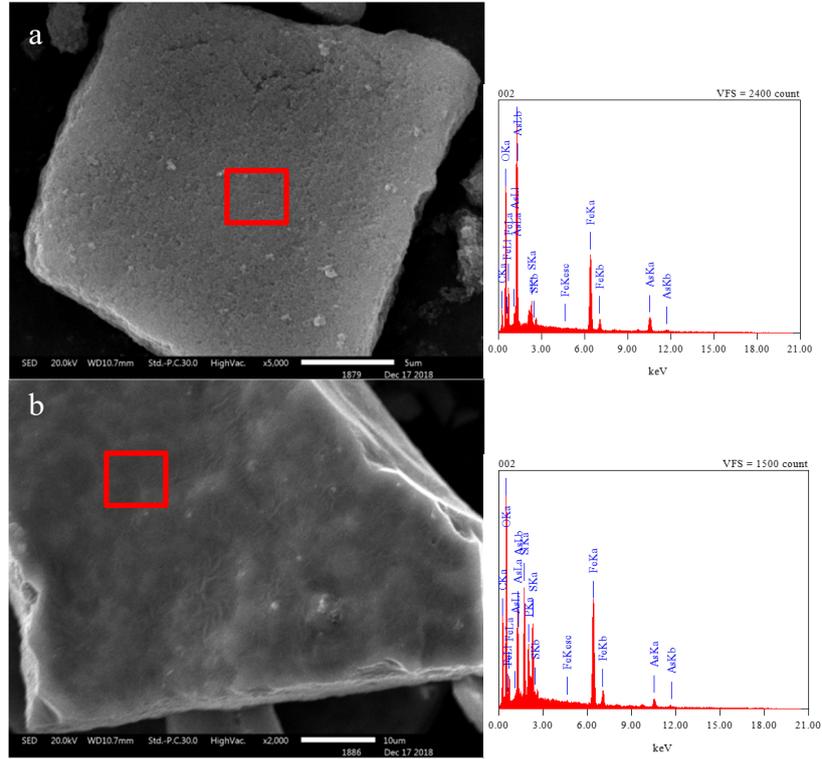
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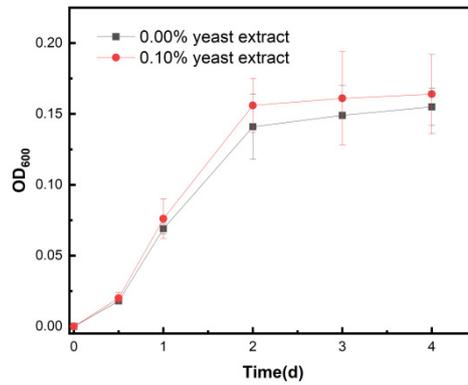
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**Figure S1.** SEM images and EDS analysis of precipitates obtained without (a) or with (b) yeast extract at 3h



**Figure S2.** Dynamic changes of OD<sub>600</sub> under 0.00% and 0.10% yeast extract.

**Table S1.** EDS analysis results of precipitates obtained with and without yeast extract (YE) at 3h

	C (Mass%)	Fe (Mass%)	As (Mass%)
0.00% YE	5.15	45.10	30.73
0.10% YE	11.33	46.61	12.80

**Table S2.** ICP analysis results of precipitates obtained with (a) and without (b) yeast extract (YE) at different reaction time

**a**

Time(h)	As (w/w)	Fe (w/w)	S (w/w)	Fe/As(molar ratio)
3	13.05%	21.96%	3.42%	2.25
6	15.35%	23.50%	3.54%	2.05
24	17.79%	23.56%	3.18%	1.77
96	21.71%	25.97%	3.90%	1.60

**b**

Time(h)	As (w/w)	Fe (w/w)	S (w/w)	Fe/As(molar ratio)
3	18.16%	26.18%	3.55%	1.93
6	18.98%	25.00%	3.65%	1.76
24	17.45%	24.93%	3.30%	1.91
96	16.24%	26.26%	3.79%	2.17