

Supplementary Information to

“Riboflavin secreted by *Shewanella sp.* FDL-2 facilitates its reduction of Se(IV) and Te(IV) by promoting electron transfer”

Manman Cheng^{1,2}, **Haikun Zhang**³, **Yan Li**^{1,2*}, **Wenhao Chen**^{1*}

¹ Solid-state Fermentation Resource Utilization Key Laboratory of Sichuan Province, Yibin University, Yibin City, Sichuan Province 644000, China

² College of life sciences, Yantai university, Yantai 264000, China

³ Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, Yantai 264000, China

* Correspondence: liyan0709@hotmail.com; 84460462@qq.com

This file consists of four pages, containing one table (Table S1) and two Figures (Figures S1 and S2).

Table S1 Primers of selected genes for RT–qPCR assays.

Primer name	Primer sequence (5'-3')
FDL-2_00165 forward primer	CACTCCGGAGGAACACCAAA
FDL-2_00165 reverse primer	CTCGTCGATAAAGGCAGTCCG
FDL-2_02437 forward primer	TACGCGGTAACGGTGCTATC
FDL-2_02437 reverse primer	TCATCGAACACCGGAAGGC
FDL-2_01864 forward primer	TCTGCTGATGTGTGACAGCC
FDL-2_01864 reverse primer	GCCGCTTATGCCTGAGACAA
FDL-2_01688 forward primer	TATTCCGTAGCGGTGATGCC
FDL-2_01688 reverse primer	GTTGGCTGCGTAAGCAGAAG
FDL-2_04257 forward primer	CCAAGAAGGTGAGGCCGTTT
FDL-2_04257 reverse primer	GGAGGCATAGCGTTCAAACC
FDL-2_02760 forward primer	GCATGTATCTGGATGCGGTG
FDL-2_02760 reverse primer	AACCACTGGCGTTGATCTCG
FDL-2_01463 forward primer	CACAGGCGATACCGGACAAG
FDL-2_01463 reverse primer	AGCAGCAACAGGTAGAGTCC
FDL-2_00533 forward primer	TGAGTTGGTGGCCTTGTCTG
FDL-2_00533 reverse primer	AGTTCAGGCACTTCGCCTTT
FDL-2_01215 forward primer	TATCGGTTGCCACGAGATGG
FDL-2_01215 reverse primer	ATTGATGGTGCCGAACACCT
FDL-2_01396 forward primer	CGATCAACTTCATGGCTCGC
FDL-2_01396 reverse primer	AACTATGTCCGACGGCTTGG
FDL-2_01436 forward primer	TTCTGGTCAATACCGCCAGC
FDL-2_01436 reverse primer	ACATAGGTCGACCGACTCCT
FDL-2_01397 forward primer	TTCCGCCTTACCATAGTGCC
FDL-2_01397 reverse primer	AGATTGACCTTATCGCCGGG
FDL-2_01902 forward primer	ATCGAAGCACTGGCACGTAA
FDL-2_01902 reverse primer	CATACGCACGACTATCGCCT
FDL-2_04281 forward primer	GGTATTGCTCGGAGGCATCA
FDL-2_04281 reverse primer	CAGCGACTCCGACTACCATC
FDL-2_01903 forward primer	GCCGAAGTGATAGTCAGCCA
FDL-2_01903 reverse primer	TGCGCTCAATCAGAGCATCA
Reference gene forward primer	GAAGTCGGAATCGCTAGT
Reference gene reverse primer	TAAGCTATCTACTTCTGG

Fig. S1 Effects of medium volume (a), carbon sources (b), pH (c) and salinity (d) on the growth of strain FDL-2.

Fig. S2 Color changes in 1 mM (a) Se(IV)- and (b) Te(IV)-supplemented systems in the presence of different concentrations of riboflavin (0, 0.2, 0.4, 0.6 mM, respectively).

Fig. S1

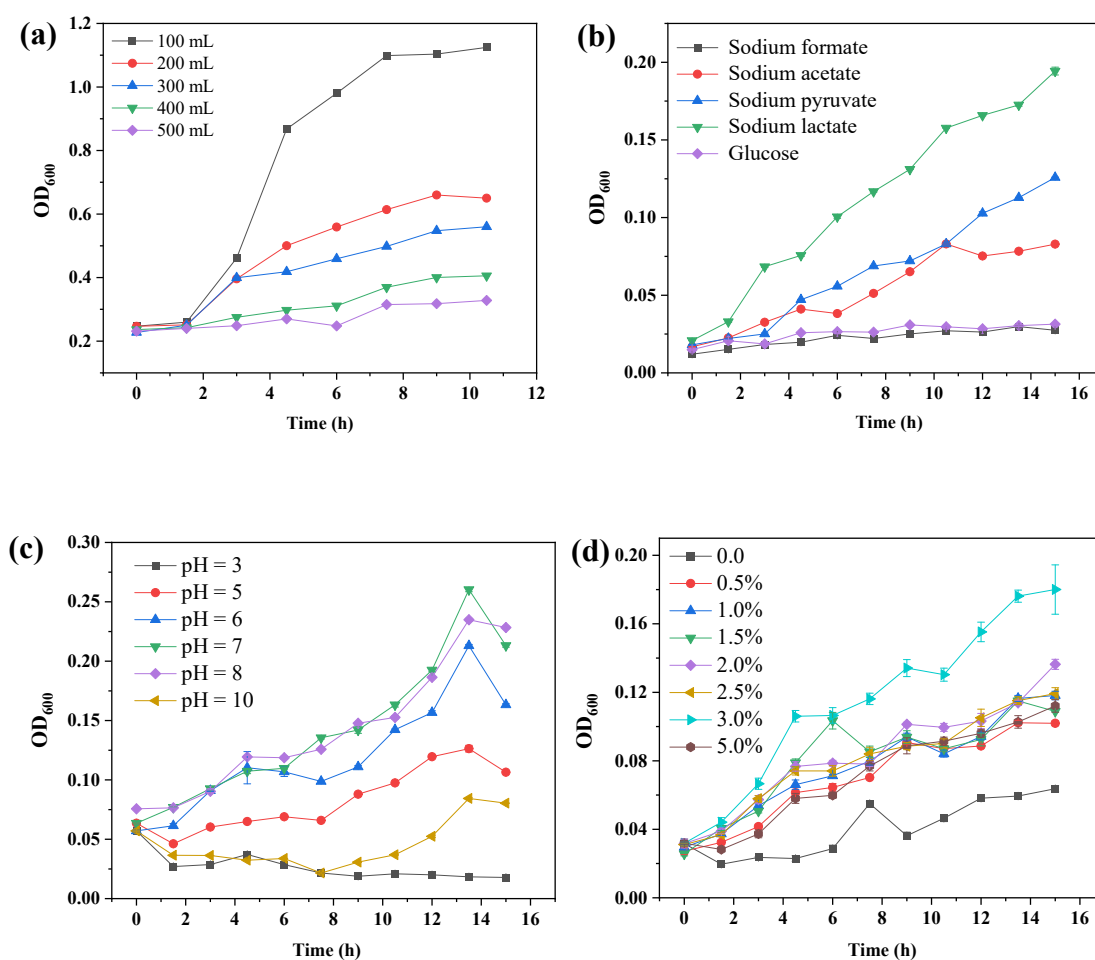


Fig. S2

