



**Fig. S1.** HPLC diagram of isolated doxorubicin from several mutants.

Doxorubicin standard (A), *Streptomyces pecetius*-pIBR-cA (B), *Streptomyces pecetius*-pIBR-cE (C), and *Streptomyces pecetius*-pIBR-cAE (D).