

Figure S1. Colony morphology of *Klebsiella oxytoca* Z28 in the medium(A) and Gram staining results of *Klebsiella oxytoca* Z28 under microscope(B).

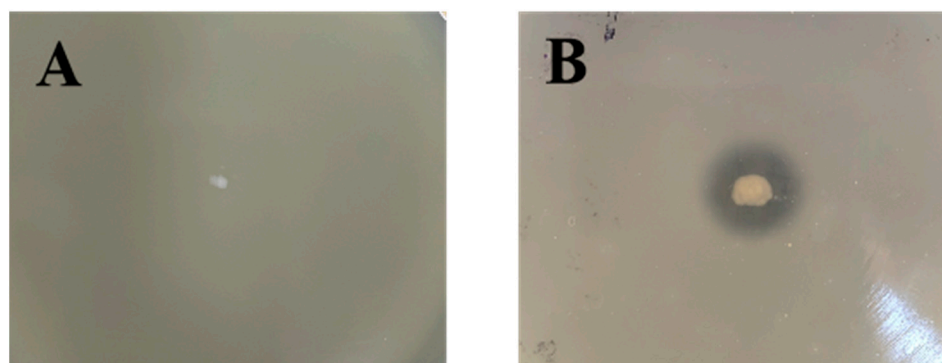


Figure S2. The control group was the degradation of ethyl 4-hydroxy-3-methoxycinnamate in LB medium by *Escherichia coli* BL (DE3) containing pET-28a (A); experimental group: degradation of ethyl 4-hydroxy-3-methoxycinnamate in LB medium by *Escherichia coli* BL (DE3) containing pER-28a-KoFae (B).

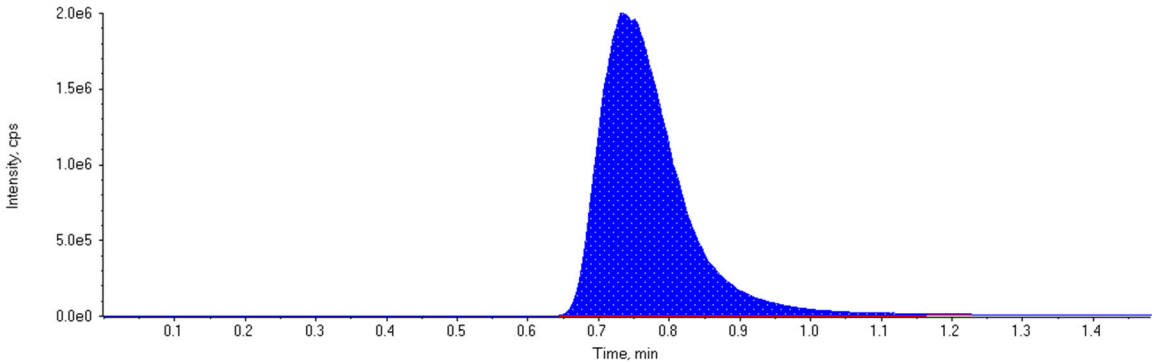
The gene sequence of koFAE: ATGAAAAAACTCTCCCTCCTGCTCACCGGCGGCCTGCTGCTTGCCGGCATGGCTTCCTGCGTTAACGCCGGCGAACTTGCTGGCAATACCGAAGGC GCTCAGGTCATTCGCGTGGA AAAAACCCGGGGCCGTATCGATGCGCTCAACGATATCG TTTATAGCCAGGTAAAAAGCACCGTCGCCGTTTCGTCAGCTGCATATGTCTTTACTGGTA CCGCGTAACGGCGATCTGAAACCGGCAATCATCTATTTCCCCGGCGGCGGTTTCACCA GCGCGGCCTGGAATAAGTTTATCGAGATGCGTATGGCGCTGGCGGCGGCGGGATTTCGT CGTCGCGGCGGCGGAATACCGTACGGTTCCCGACACCTTTCCGGCCCCGTTATCGATG GTAAAGCCGCCGTTTCGCTATCTGCGCGAACATGCCGCGGAATACGGTATAGACCCGTCG CGTATTGGCGTGCTGGGGGATTCCGCAGGCGGCTATATGGCGCAGATGCTGGCGCTCAC CAACGGTGACAAAACGTTTCGAGCGTGGCGATAACCTGGCACAATCCTCGGATGTGCAG GCCGCCGCCACGCTGTACGGTATCTCGAACCTGTTGAATATCGGCGAAGGTTTTCCGCA GGCGATTCAAAAAGTGCAACAGTCGCCGGCGGTCACTGAAGCGCTGCTGGTACACGG TAGCGCCTTTTCGCGACTGGCCGGGAGCGACGATTGACAGCGATCCGCAAAAAGCCCT GGCGGCCAGCCCAGTGGGCCATATCAGCGGTAAAAAGCCGCCGTTTTTAATTATGCACG

GCAGCGCCGACACCCTGGTTTCACCGGTACAAAGTCAACAGCTCTATCGCGCGCTGAA  
AAAGGAGGGCAACCCGGCCGATTACGTGTTGCTGGCGGGCGCGGAGCACGGCGATGA  
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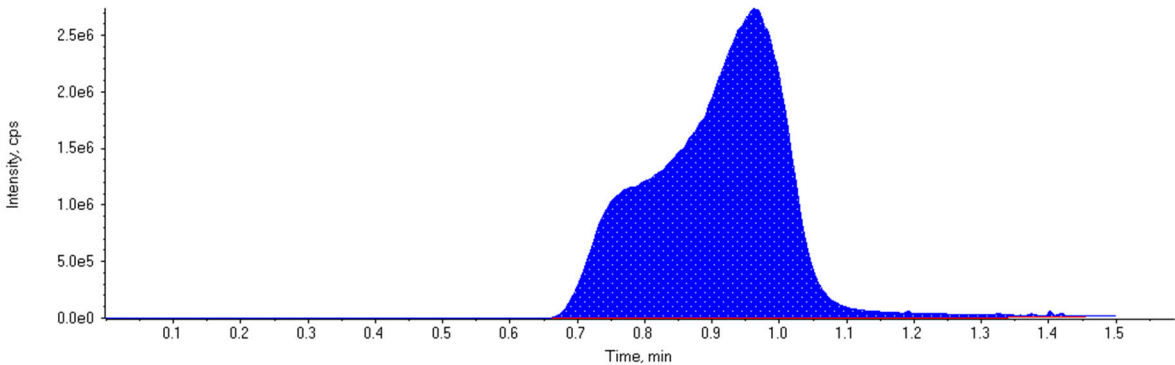
Amino acid sequence of koFAE: MKKLSLLLTGGLLLAGMASCVNAGELAGNTEGAQVIR  
VEKTRGRIDALNDIVYSQVKSTVAVRQLHMSLLVPRNGDLKPaiiYFPGGGFTSAAWNKF  
EMRMALAAAGFVVAAAEYRTVPDTPAPVIDGKAAVRYLREHAAEYIDPSRIGVLGDSA  
GGYMAQMLALTNGDKTFERGDNLAQSSDVQAAATLYGISNLLNIGEGFPQAIQKVHQSPA  
VTEALLVHGSAFRDWPGATIDSDPQKALAASPMGHISGKKPPFLIMHGSADTLVSPVQSQ  
QLYRALKKEGNPADYVLLAGAEHGDDSWYQKPVIERVVNWFKATLGAPKAAATAEKDK  
NANL

Table S1. The original data of ferulic acid yield detected by LC-MS.

sample name	Peak area	Ferulic acid yield (ug/g)	average (ug/g)
Standard sample (50ug/L)	15100000	-	-
Sample 1	32689386	237.82	227.15
Sample 2	35910578	216.48	



(A)



(B)

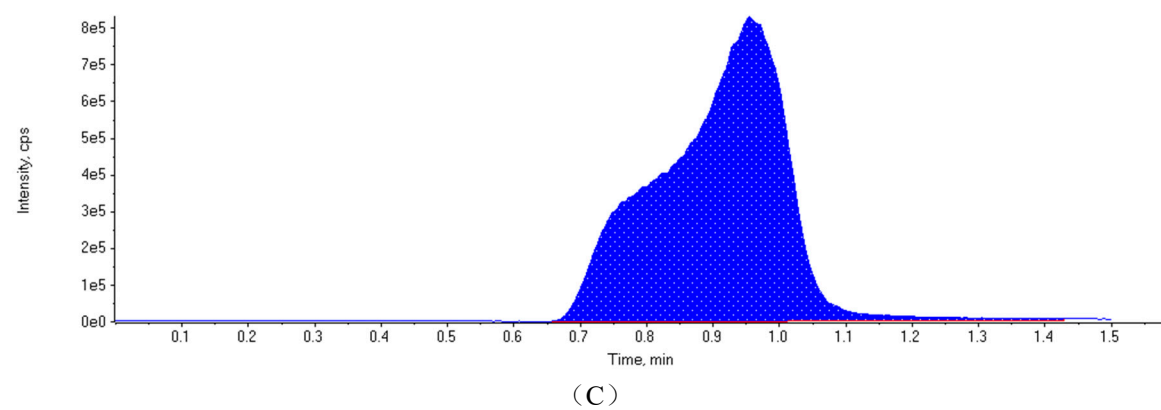


Figure S3. The peak area of ferulic acid was determined by LC-MS; A: Standard sample; B: Sample 1; C: Sample 2.