Appendix A. Supporting information

Supporting Information for

Original article

Screening of acetyl donor and robust enzymatic synthesis of acetyl-CoA by 10-deacetylbaccatin III -10-*β*-*O*-acetyltransferase

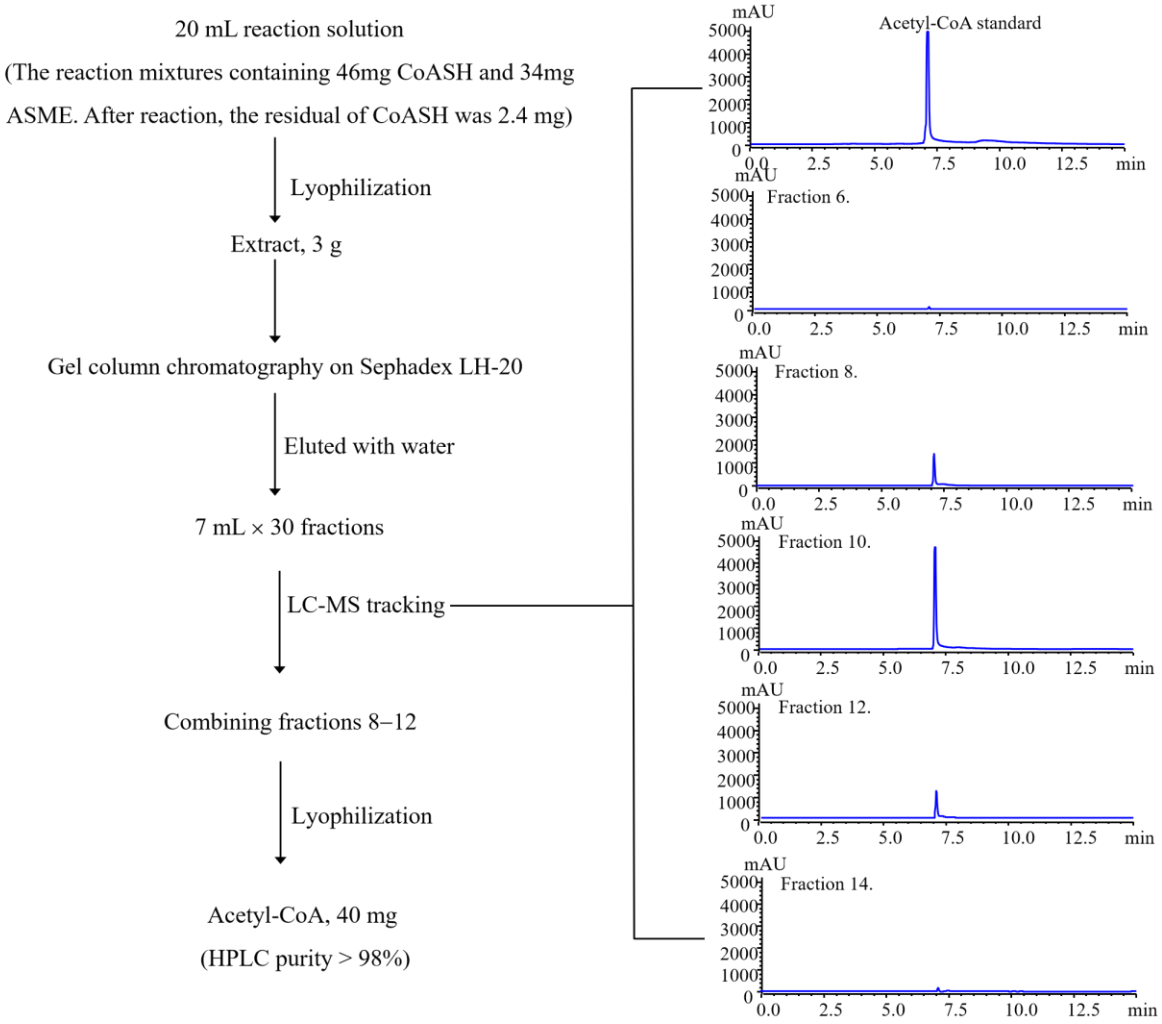

Figure S1. Flow chart of acetyl-CoA purification.

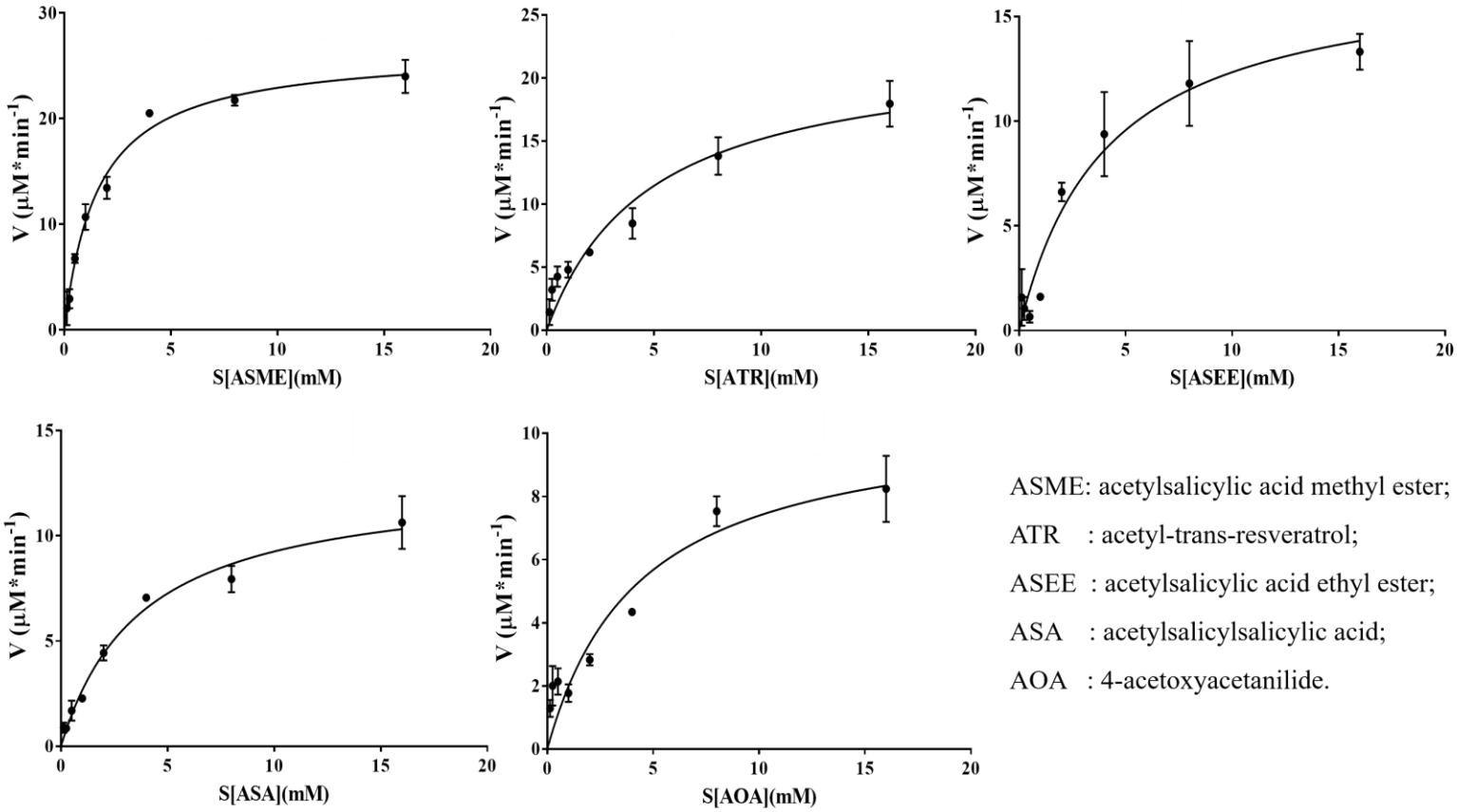

Figure S2. Substrate-velocity curves for kinetic parameters of DBAT against five acetyl donors.

The kinetic parameters were determined against ATR, ASME, ASA, ASEE, AOA.The reaction mixtures containing 100 mM Tris-HCl buffer (pH 7.0), an acetyl donor in a range of 0.0125 mM, 0.25 mM, 0.5 mM, 1 mM, 2 mM, 4 mM, 8 mM, and 16 mM, 0.1 mg/mL DBAT, 1 mM CoASH, 1.7 mM KH_2PO_4, and 7.2 mM $K_2HPO_4 \bullet 3H_2O$ in a final volume of 200 μL were incubated at 37 °C for 0.5 h. The reactions were terminated by adding 300 μL methanol. The kinetic data were processed via a proportional weighted fit using a nonlinear regression analysis program based on Michaelis–Menten enzyme kinetics.

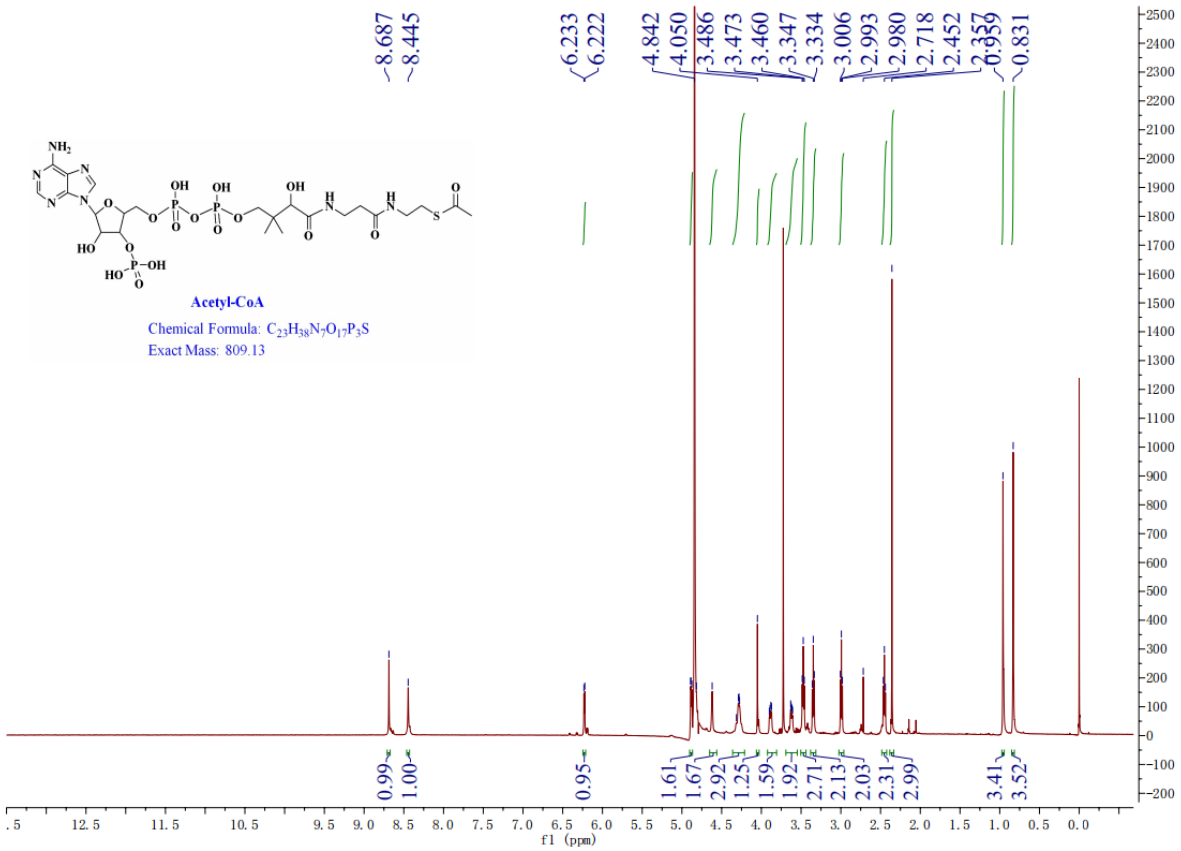

Figure S3. The ^{1}H-NMR spectrum of acetyl-CoA.