

Supplementary materials for

Antibacterial activity of ferulic acid ester against *Ralstonia solanacearum* and its synergy with essential oils

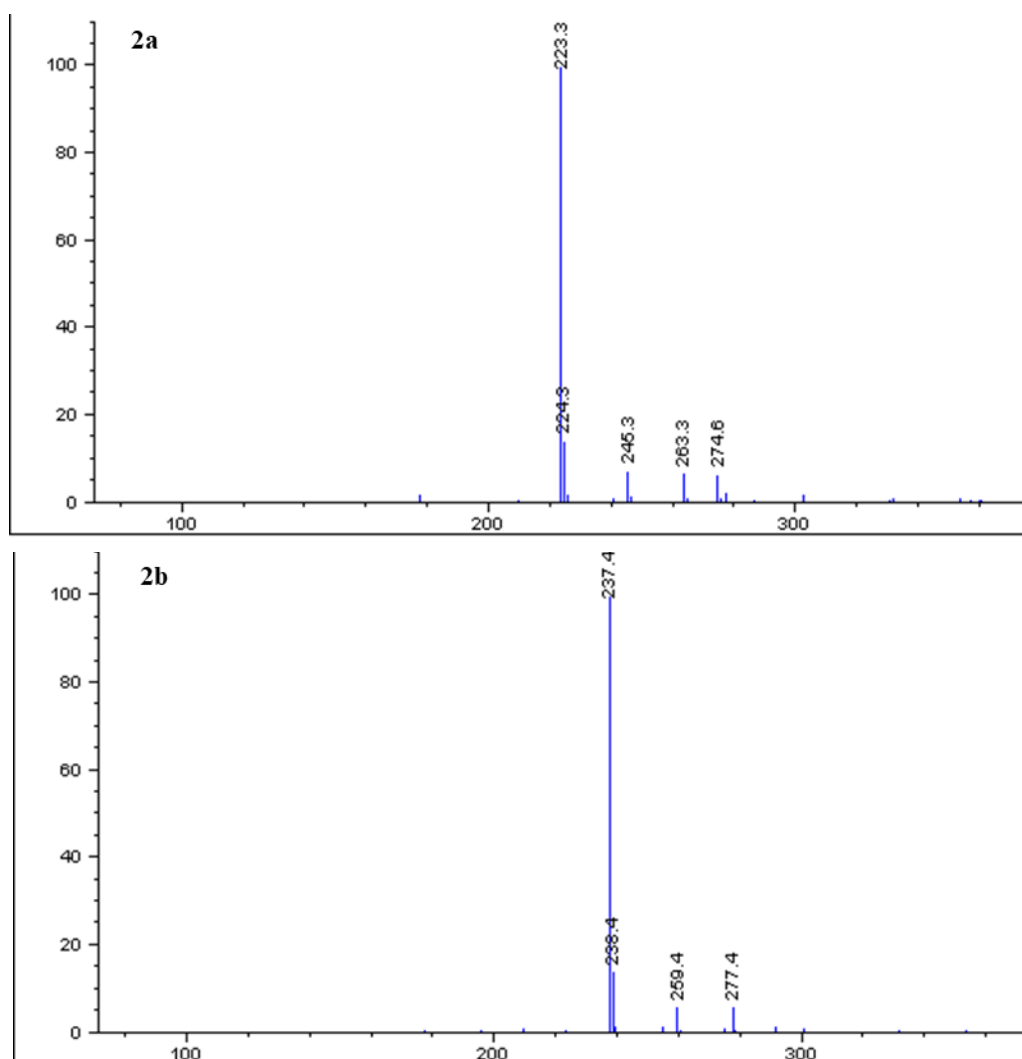
Qing-Bo Tu ^{1,2}, Hui-Cong Shi ¹, Ping Li ^{1,3}, Sheng Sheng ^{1,3}, Fu-An Wu ^{1,3,*}

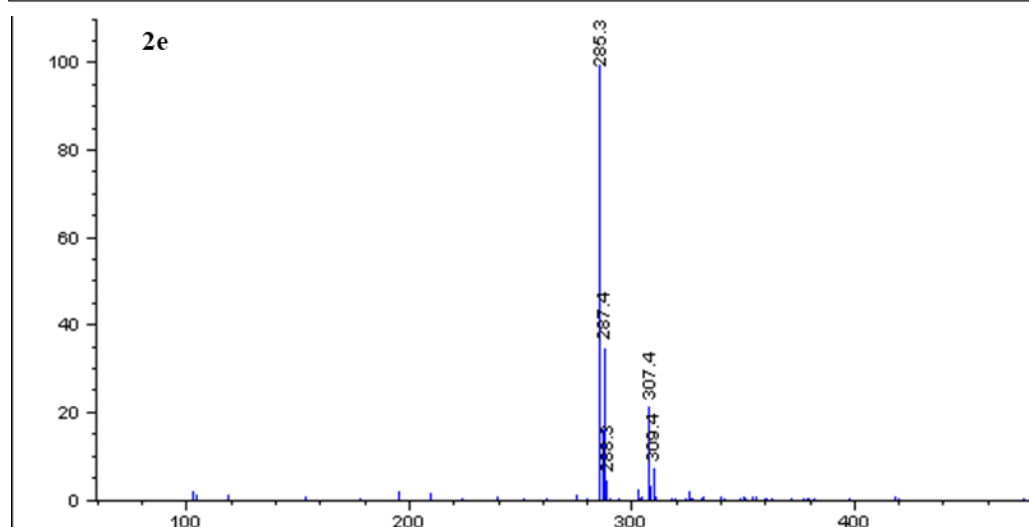
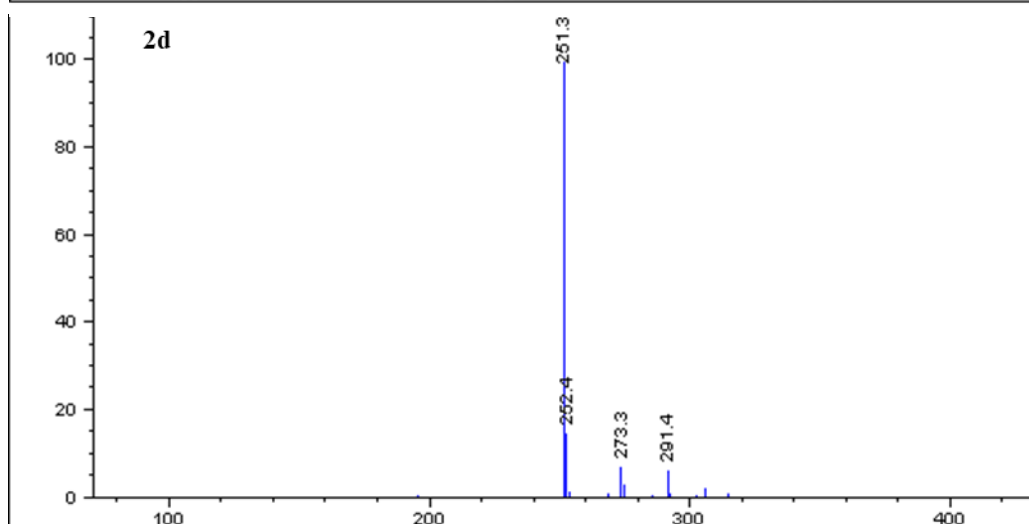
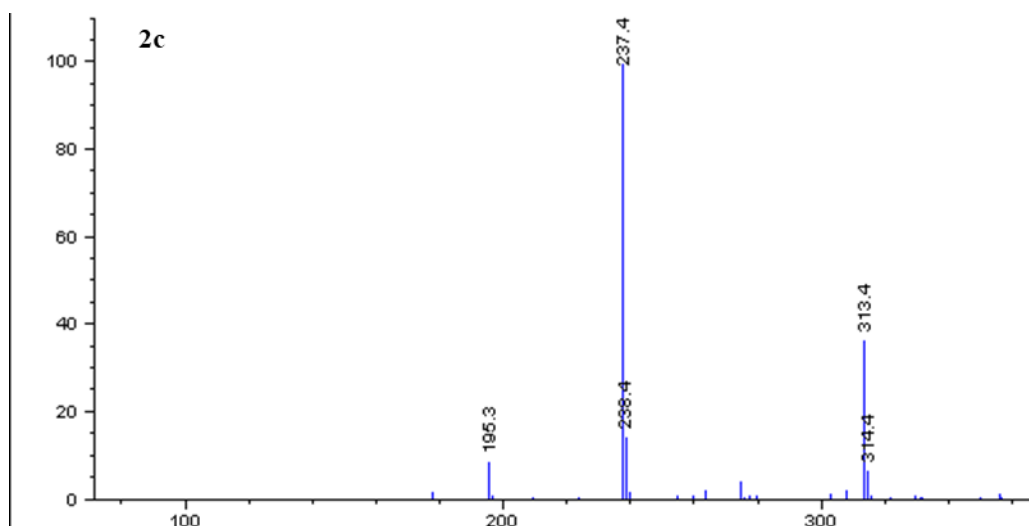
¹ School of Biotechnology, Jiangsu University of Science and Technology, Zhenjiang 212018, China

² School of pharmacy, Nanjing University of Chinese Medicine Hanlin College, Taizhou 225300, China

³ Key Laboratory of Silkworm and Mulberry Genetic Improvement, Ministry of Agricultural and Rural Affairs, Sericultural Research Institute, Chinese Academy of Agricultural Sciences, Zhenjiang 212018, China

* Correspondence author: fuword@163.com; Tel.: +86-511-85616571





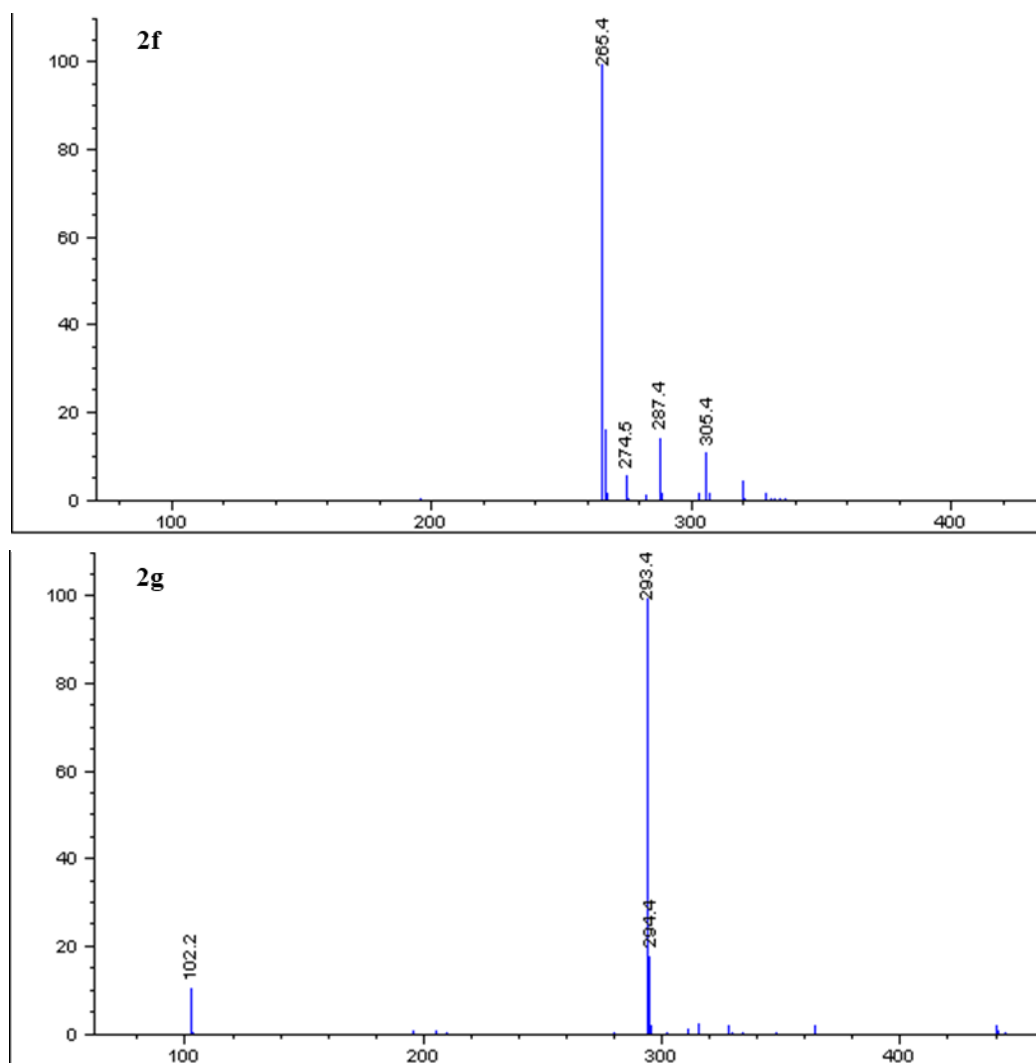
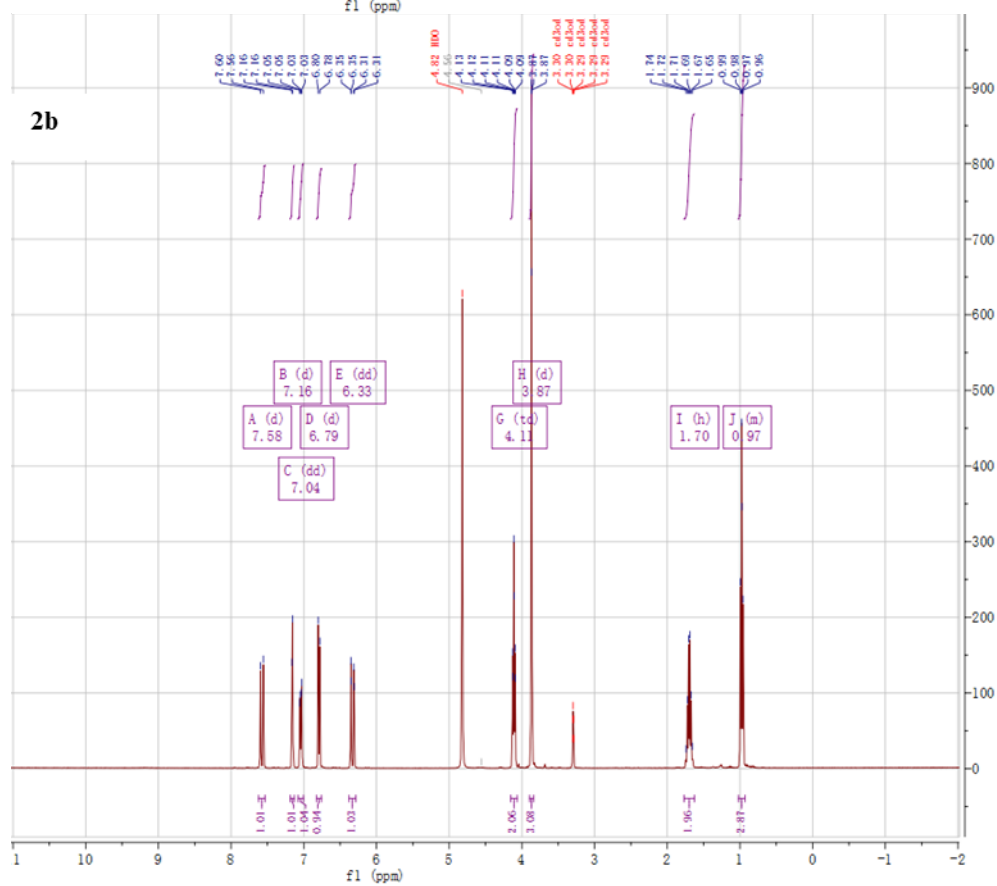
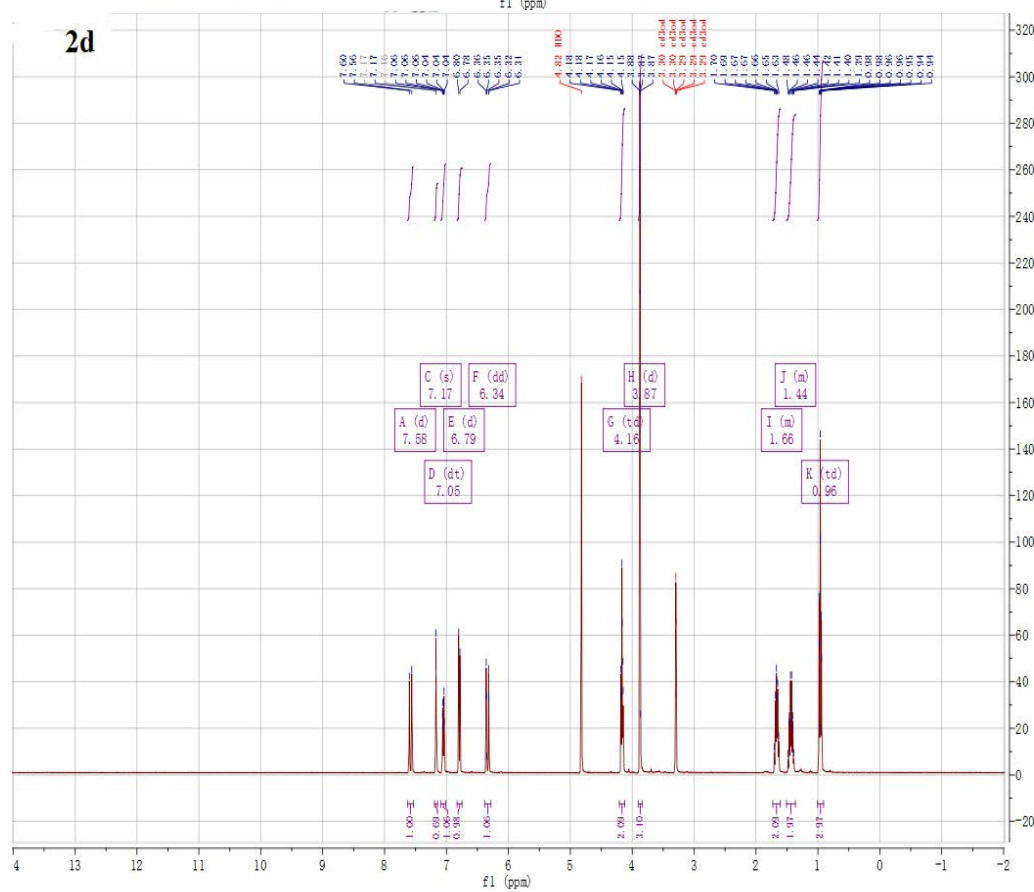
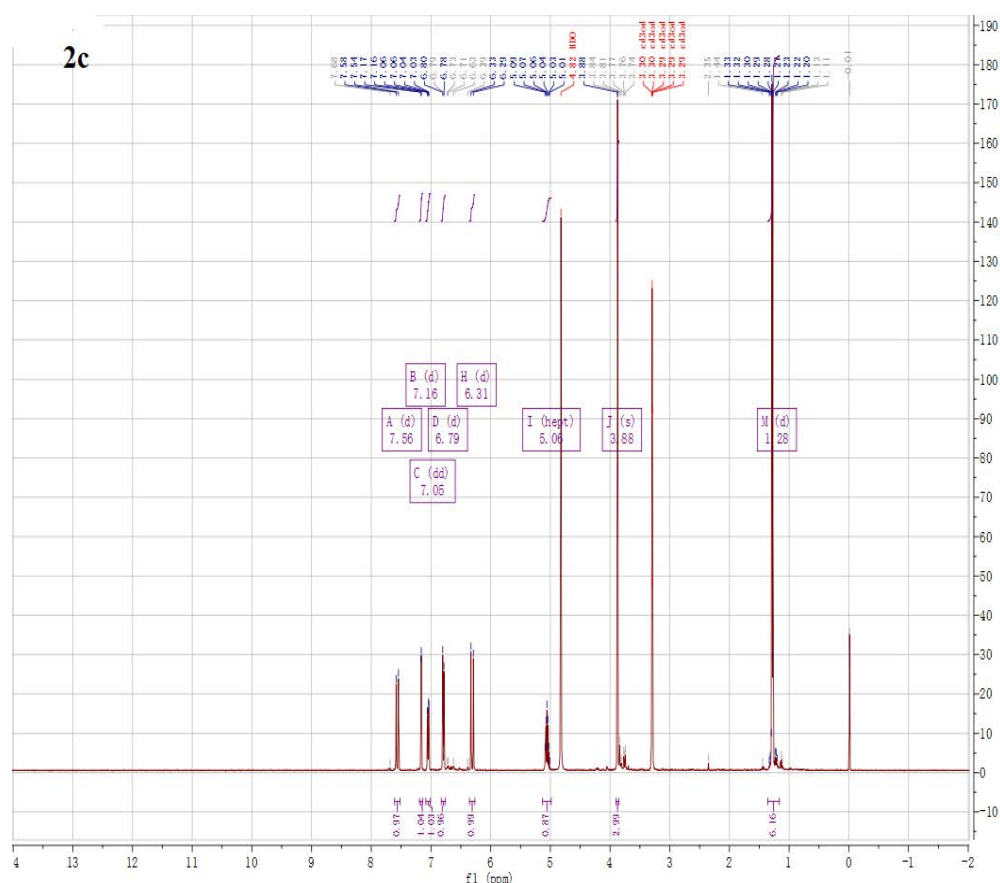
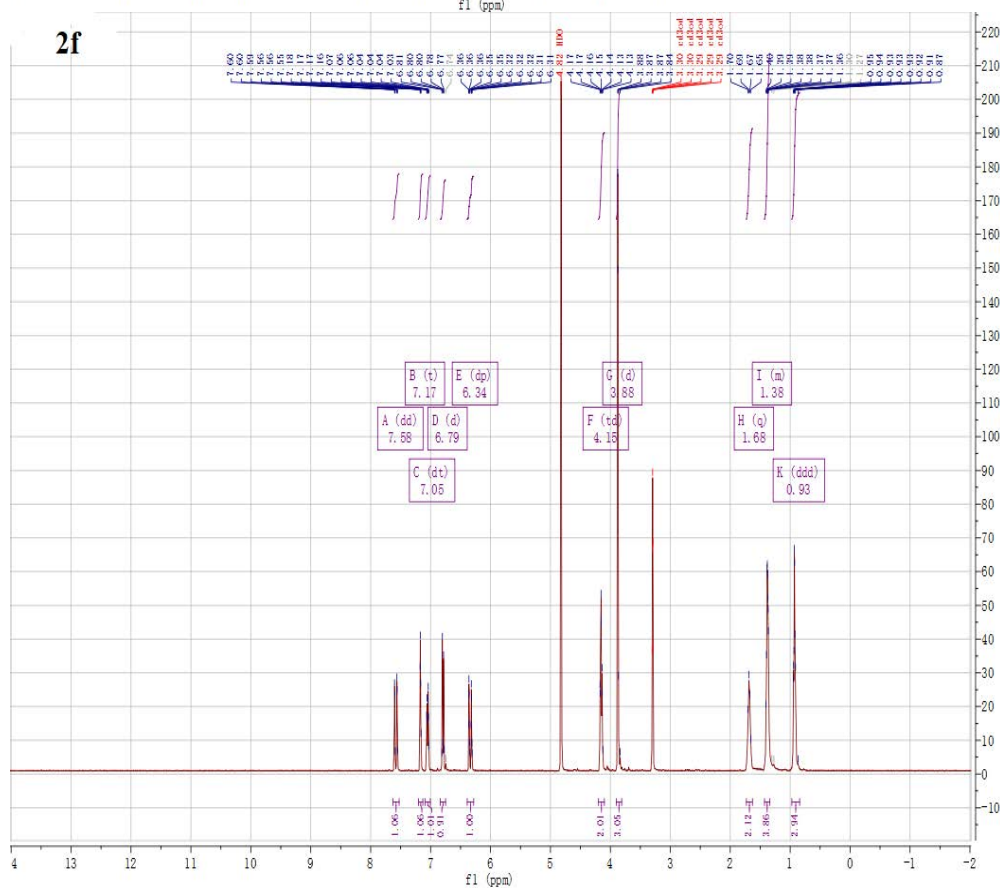
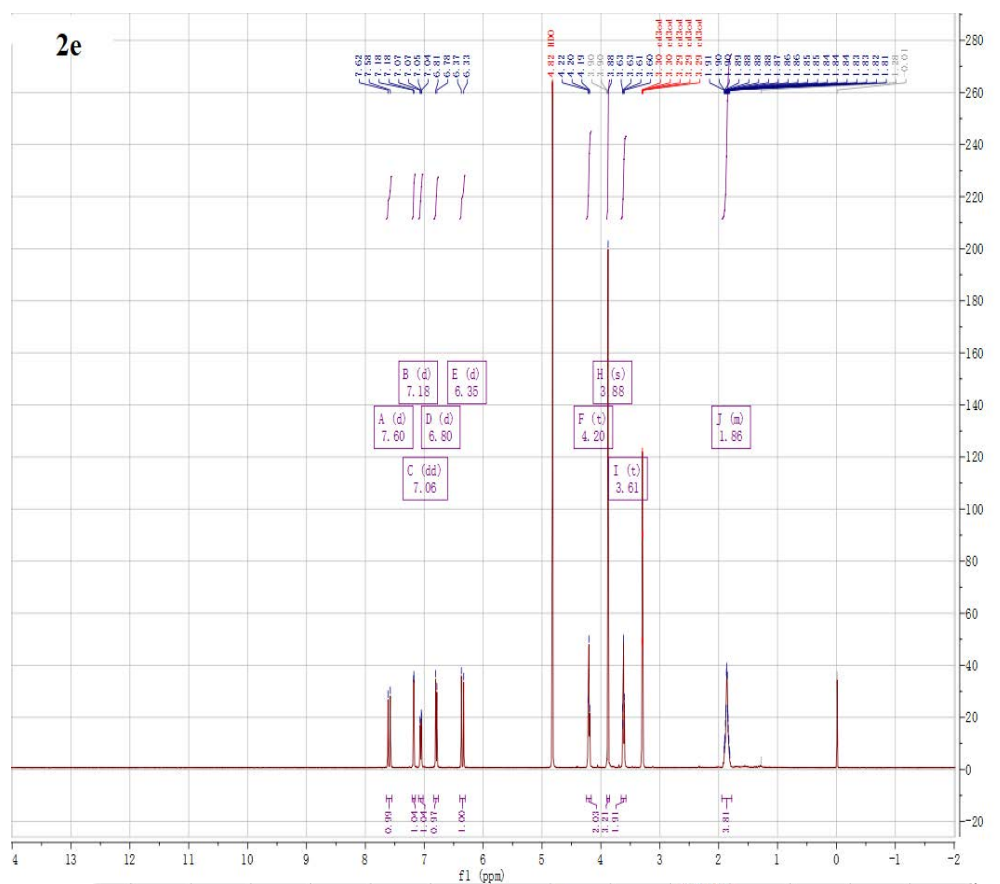


Figure S1. ESI-MS analysis of ferulate esters. **2a:** Ethyl ferulate, **2b** Propyl ferulate, **2c:** Isopropyl ferulate, **2d:** Butyl ferulate, **2e:** Chlorobutyl ferulate, **2f:** Amyl ferulate, **2g:** Heptyl ferulate.







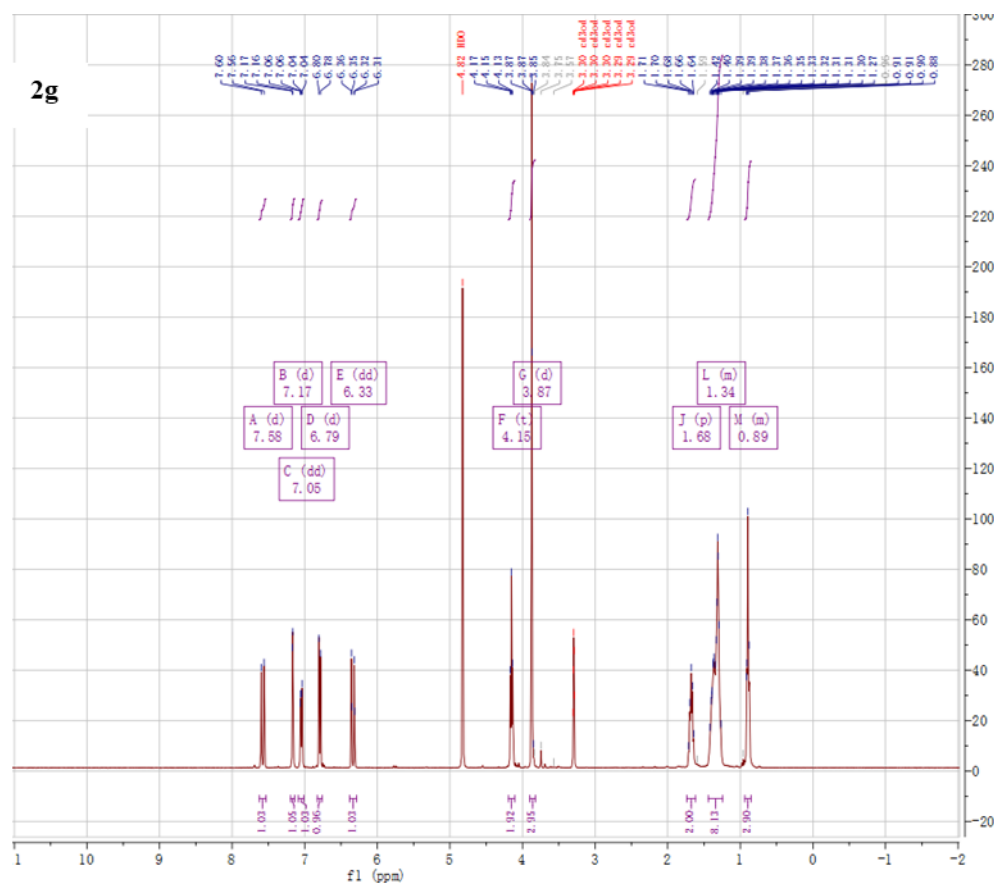


Figure S2. ^1H NMR spectrum of ferulate esters. **2a:** Ethyl ferulate, **2b** Propyl ferulate, **2c:** Isopropyl ferulate, **2d:** Butyl ferulate, **2e:** Chlorobutyl ferulate, **2f:** Amyl ferulate, **2g:** Heptyl ferulate.

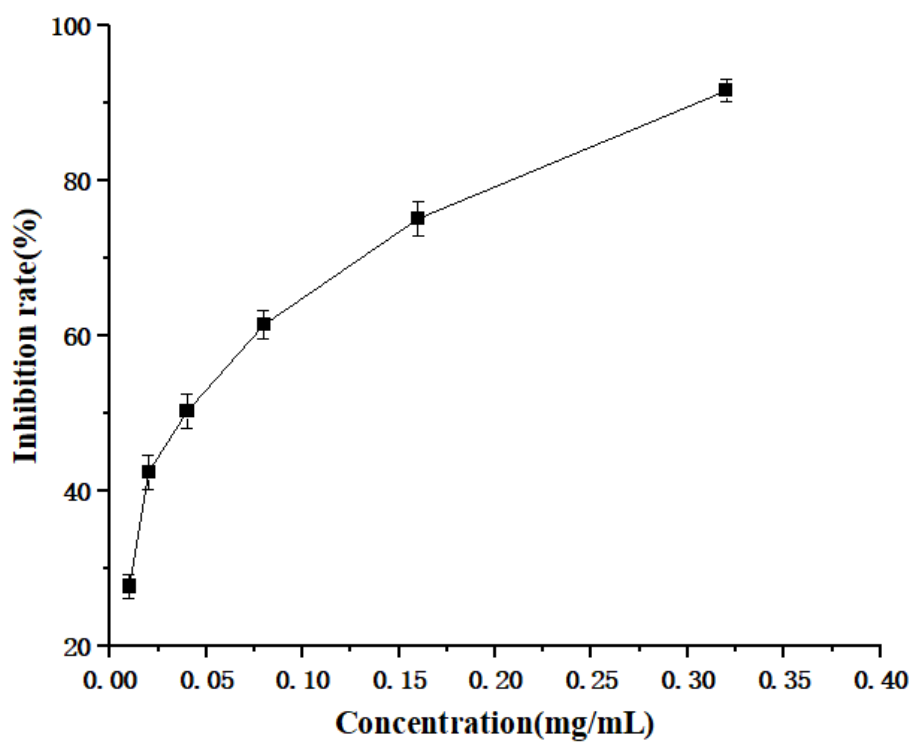


Figure S3. Antimicrobial activity of 2e-EO₁ against *R. solanacearum*. Ethanol was used as CK. The state time of incubation was 24 h and the detection wavelength was 600 nm. The EC₅₀ value was fitted by Logistic evaluation.