

Figure 1. GC-MS analysis of the β-ionone formed by FaCCD1 from β-apo-8'-carotenal.

(A) Crude extracts were prepared from *E.coli* BL21 cells expressing the recombinant protein GST-FaCCD1 (bottom panel) and from BL21 transformed with the empty vector pGEX-4T-1 (control, top panel). (B) Mass spectrum of peak 3 corresponding to β-ionone.

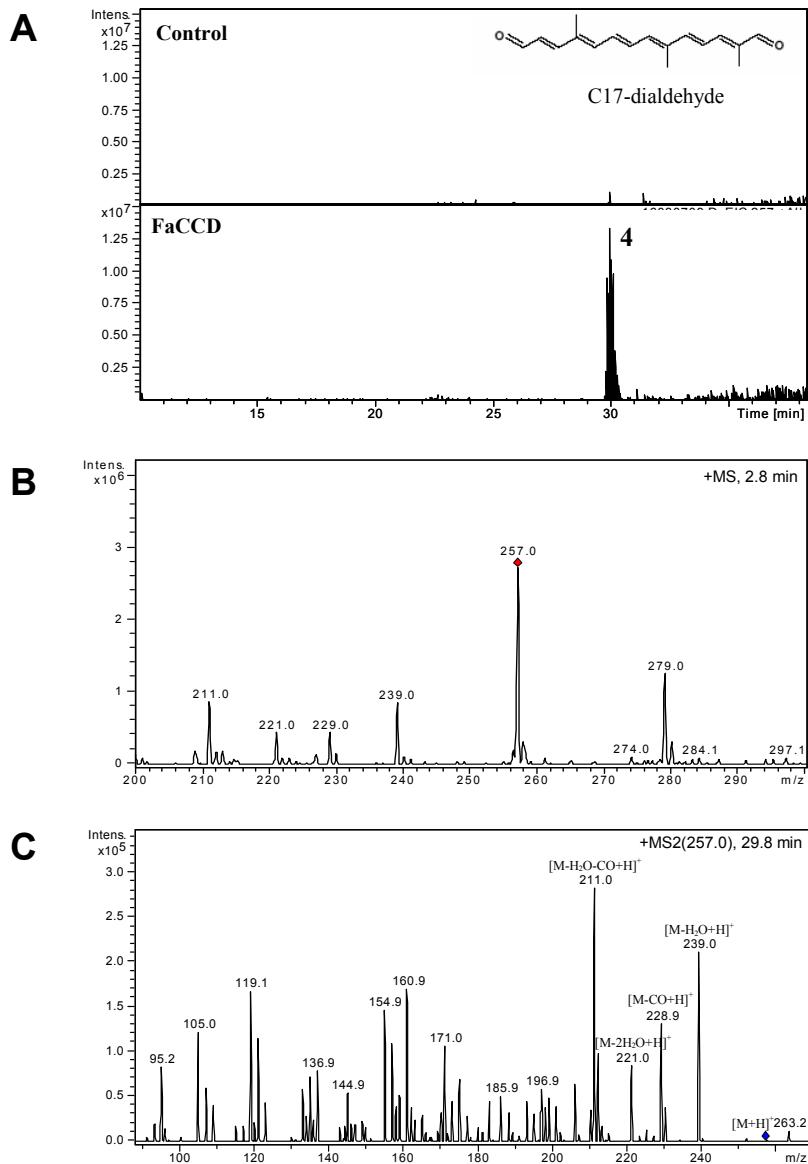


Figure 2. LC-MS analysis of the C₁₇-dialdehyde formed by FaCCD1 from β-apo-8'-carotenal. (A) Crude extracts were prepared from *E.coli* BL21 cells expressing the recombinant protein GST-FaCCD1 (bottom panel) and from BL21 transformed with the empty vector pGEX-4T-1 (control, top panel). (B) Mass spectrum of peak 4 corresponding to C₁₇-dialdehyde. (C) LC-MS² analysis of the peak 4 corresponding to C₁₇-dialdehyde.

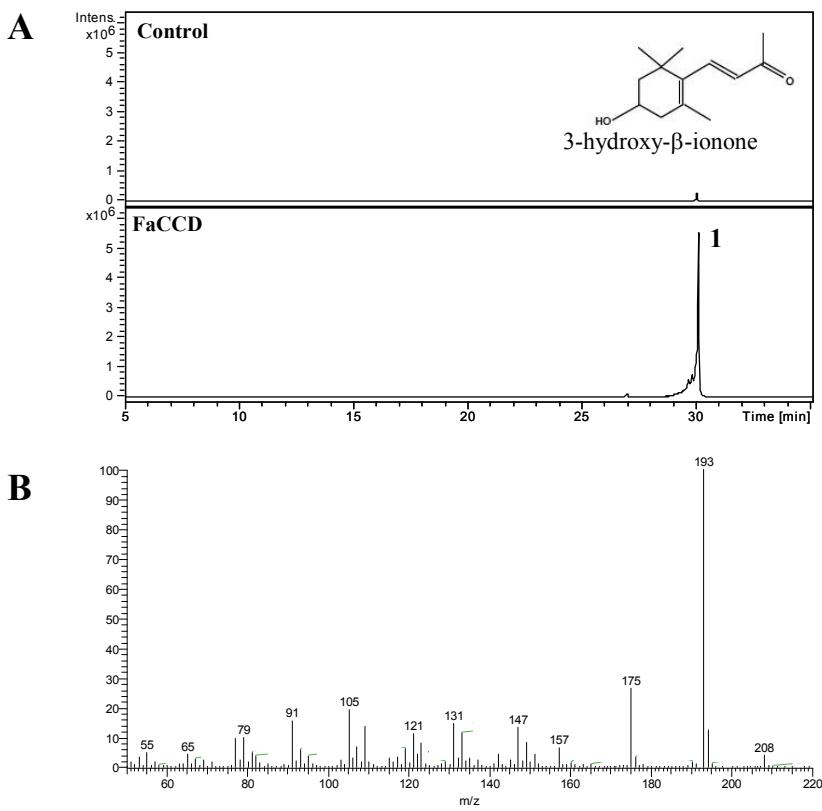


Figure 3. GC-MS analysis of the 3-hydroxy- β -ionone formed by FaCCD1 from zeaxanthin. (A) Crude extracts were prepared from *E.coli* BL21 cells expressing the recombinant protein GST-FaCCD1 (bottom panel) and from BL21 transformed with the empty vector pGEX-4T-1 (control, top panel). (B) Mass spectrum of peak 1 corresponding to 3-hydroxy- β -ionone.