Figure S5. Reversed-phase HPLC of synthetic hydroxycinnamoyl malate esters and of methanolic plant extracts. A. Chemical structures, elution profiles and UV absorption spectra for sinapoyl malate (SM), 5-hydroxyferuloyl malate (OH-FM), and feruloyl malate (FM). The chromatograms represent 15 pmol, 30 pmol, and 32 pmol of the esters, respectively. B. Elution profiles of compounds extractable with aqueous methanol (80%) from 4-week-old plantlets of wild-type A. thaliana (WS), the two allelic comt1 mutant lines (comt1a and comt1b), and the complemented mutant line (CpOMT14). SM and OH-FM were identified and quantified by co-chromatography and spectral analysis with synthetic standards used for reference. Spectral absorption data suggested that the compounds marked 1 and 6 were additional esters of sinapic acid and 5-hydroxyferulic acid, respectively. The compounds marked 2 to 5 represent flavonoids or flavonoid glycosides. Compounds 1 to 6 were not characterized further.