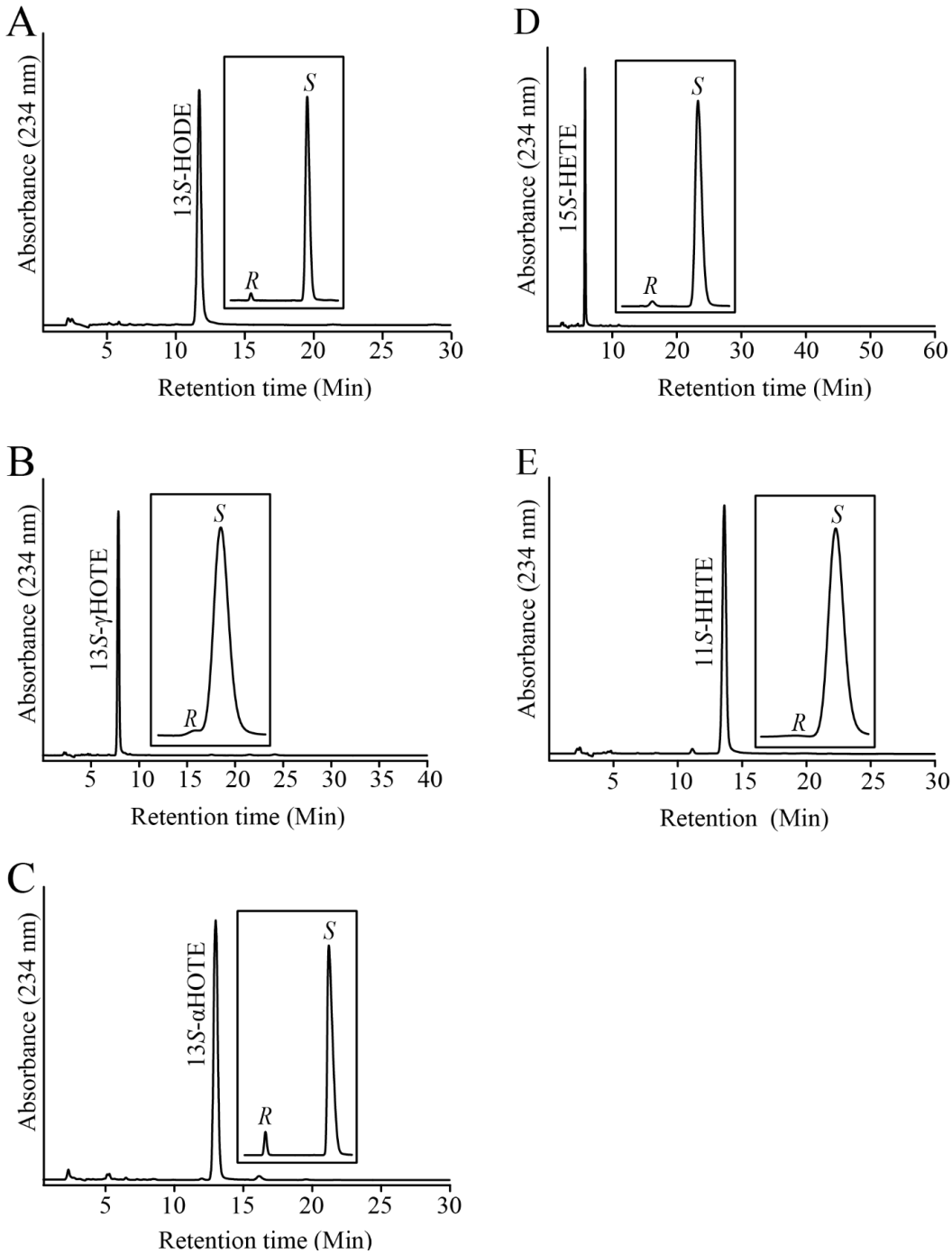

Additional file 2 Identification of regioisomers and stereoisomers of LiLOX products. The reaction mixture contained 1 µg of purified LiLOX in 20 mM Bis-TRIS propane buffer pH 7.5 and 100 µM of respective PUFA. Reactions took place for 1 h at room temperature with accessible oxygen. Products were reduced by sodium borohydride for 10 minutes at room temperature and extracted with diethylether. **A-E.** SPHPLC chromatogram of LiLOX products derived from the following PUFA acid substrates: **A.** 18:2(n-6); **B.** 18:3(n-6); **C.** 18:3(n-3); **D.** 20:4(n-6); **E.** 16:3(n-3). Results shown are representative for three independent experiments. Each experiments was performed with different enzyme preparations. For each main product, the respective chromatogram of the Chiral Phase CP-HPLC is represented in the corresponding box, representative of one measurement. All isomers were identified with authentic standards besides the Stereoisomers 11*R*-HHTE/11*S*-HHTE and 11*R*-HHDE/11*S*-HHDE which were tentatively asigned. All LiLOX products were detected at 234 nm.