

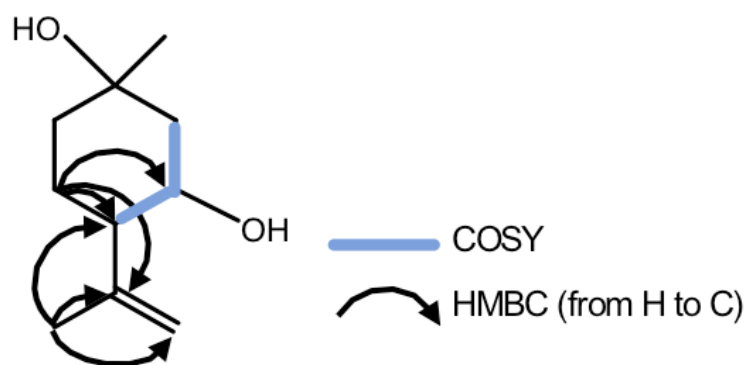


Fig. S1. The key COSY and HMBC correlations of 1-methyl-4-(1-methylethenyl)-1,3-cyclohexanediol

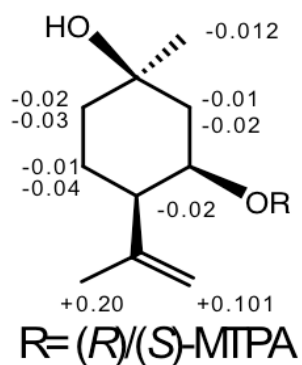


Fig. S2. Results of absolute configuration assignment of the prepared esters of 1-methyl-4-(1-methylethenyl)-1,3-cyclohexanediol (MMC) with (*R*)-(-)- and (*S*)-(+)-2-methoxy-2-phenyl-3,3,3-trifluoropropanoic acids (MTPA). Numbers indicate the differences of proton chemical shifts ($\Delta\delta$ values, $\delta_S - \delta_R$) between (*S*)-MTPA ester of MMC and (*R*)-MTPA ester of MMC.

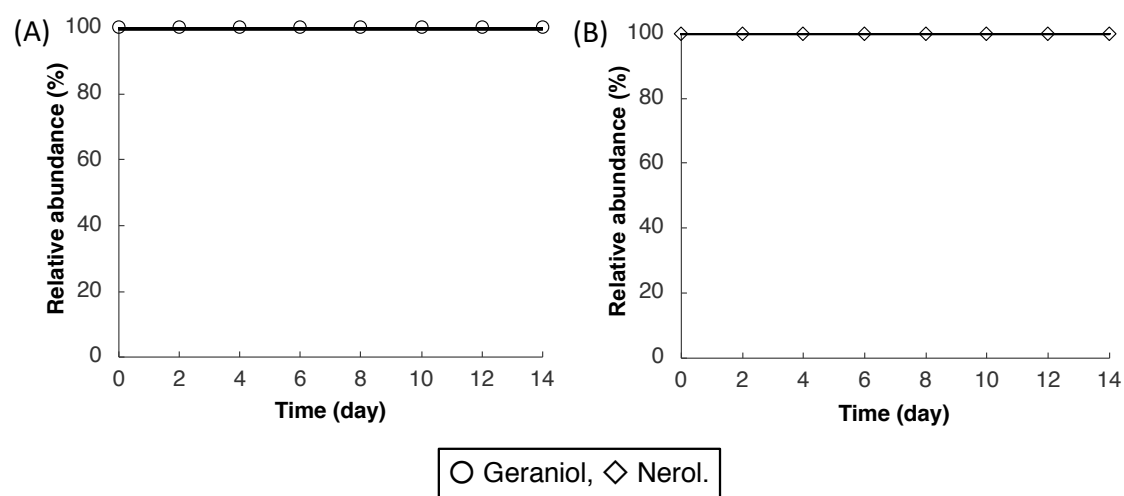


Fig. S3. Time courses of the biotransformation of (A) geraniol and (B) nerol by *Acinetobacter* sp. Tol 5.

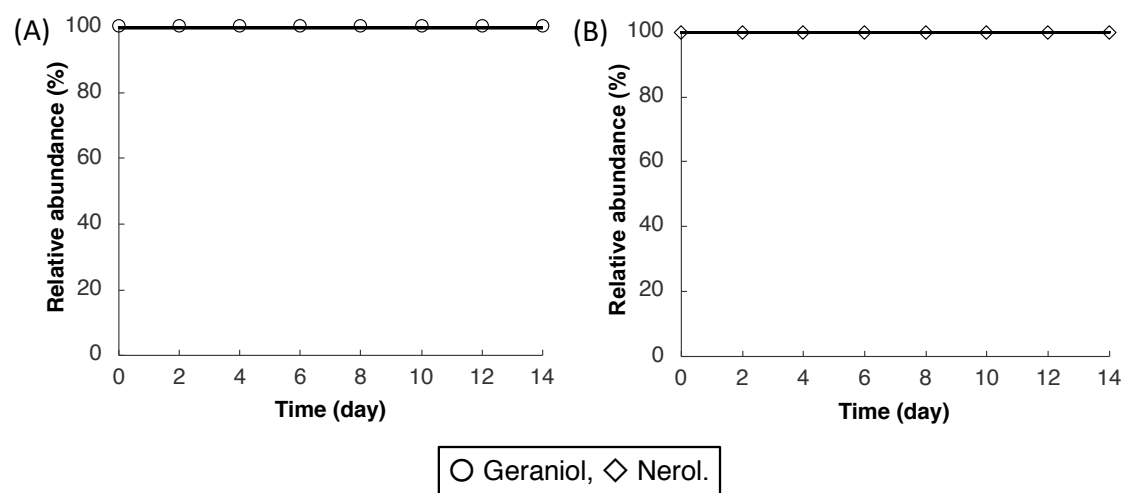


Fig. S4. Time courses of the autoxidation of (A) geraniol and (B) nerol in the absence of *Acinetobacter* sp. Tol 5.