Dynamic model of batch enzymatic reactive distillation for the production of R-2-pentyl butyrate

SUPPORTING INFORMATION

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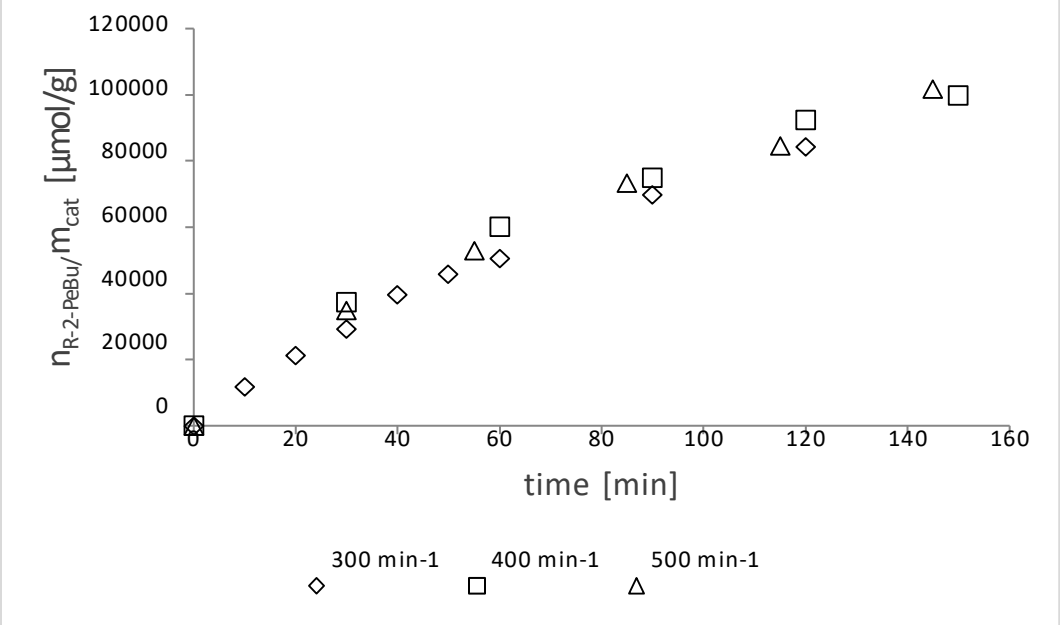

Figure S1: Production of R-2-PeBu with varying stirring speeds in kinetic measurement setup at 60 °C with a starting composition of x_{EtBu}=0.5, $x_{R\text{-}2\text{-}PeOH}$=0.25, $x_{S\text{-}2\text{-}PeOH}$=0.25

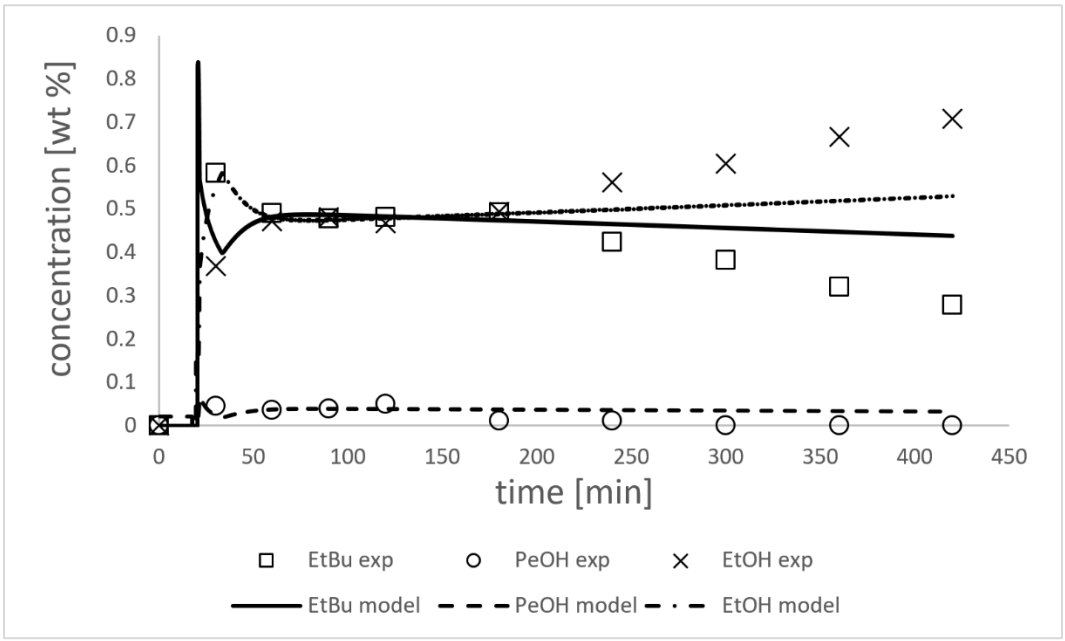

Figure S2: Reactants' concentrations in the distillate stream over time with simulated reflux ratio set at 10 for the whole process

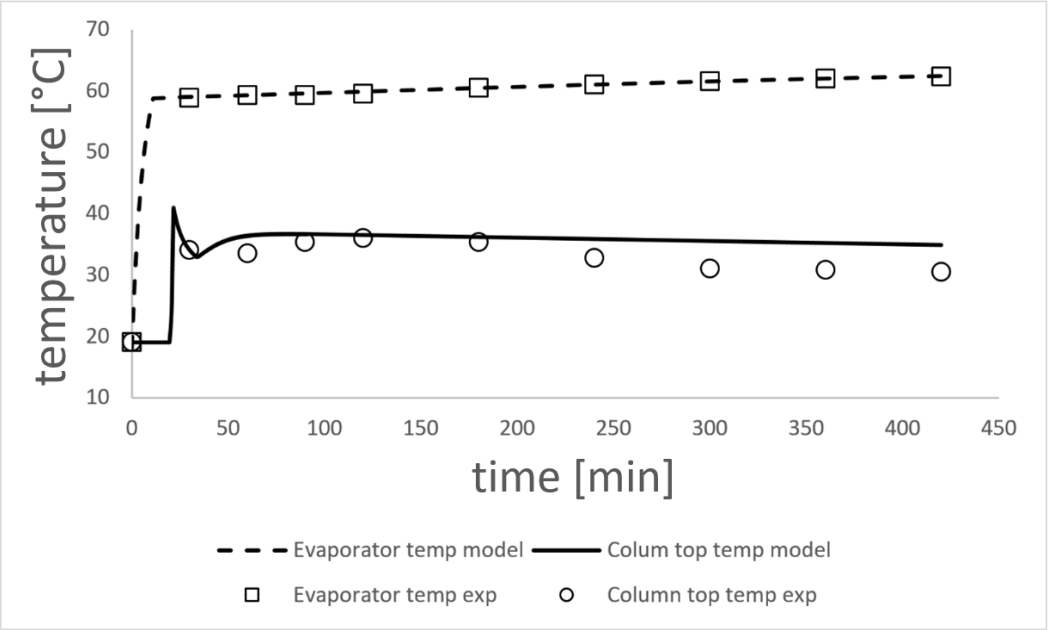

Figure S3: Temperatures of the evaporator and the vapor at the top of the column over time with simulated reflux ratio set at 10 for the whole process

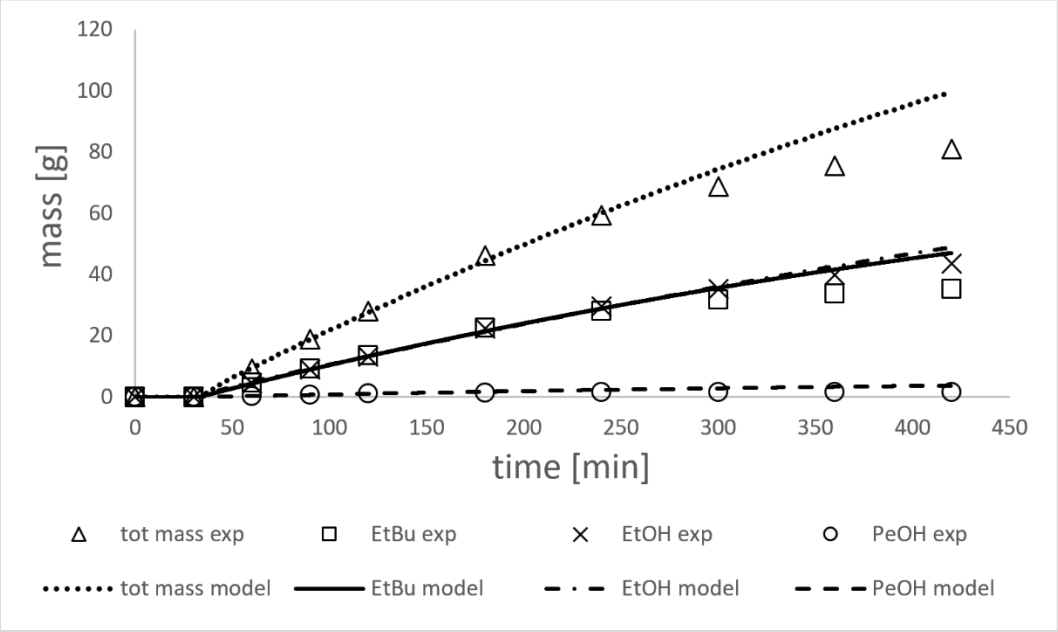

Figure S4: Mass increase in the collection vessel over time with simulated reflux ratio set at 10 for the whole process