

Kinetic analysis of kraft lignin conversion via Fenton process: Process optimization and stochastic modelling

Lucas Ramos,^a Giovani Maltempi Mendes,^a Adriano Francisco Siqueira,^b Diovana Aparecida dos Santos Napoleão,^b Anuj Kumar Chandel^{*a}

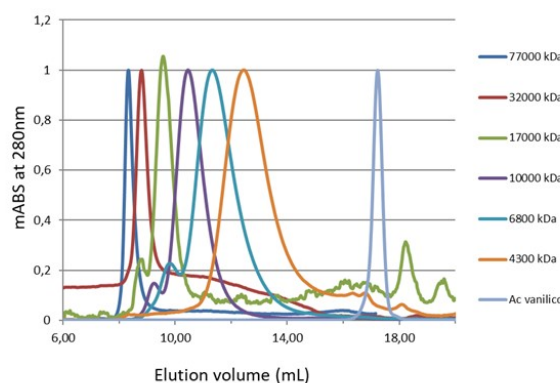


Figure S 1. Polystyrene sulfonate standard markers used in the calibration column systems for molecular weight range analysis.

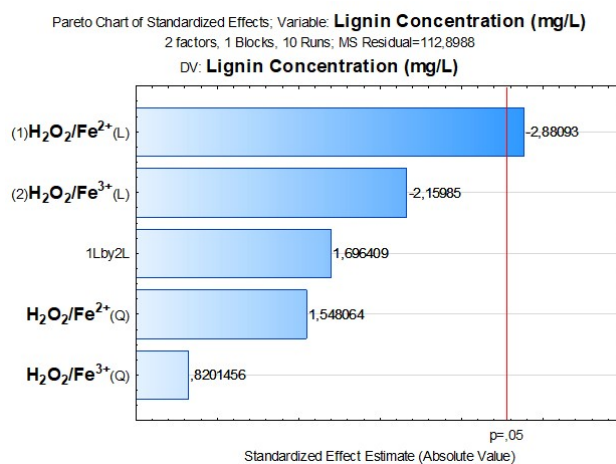


Figure S 2. Pareto chart depicting the linear and quadratic effects of the variables $\text{H}_2\text{O}_2/\text{Fe}^{2+}$ and $\text{H}_2\text{O}_2/\text{Fe}^{3+}$ molar ratios on final lignin concentration as a response variable.

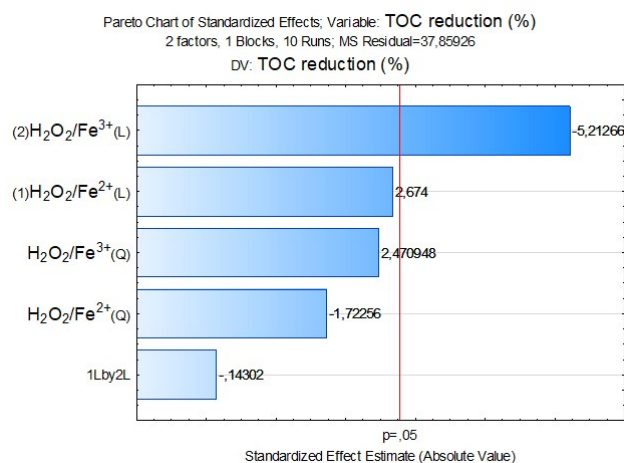


Figure S 3. Pareto chart depicting the linear and quadratic effects of the variables H₂O₂/Fe²⁺ and H₂O₂/Fe³⁺ molar ratios on the TOC as a response variable.

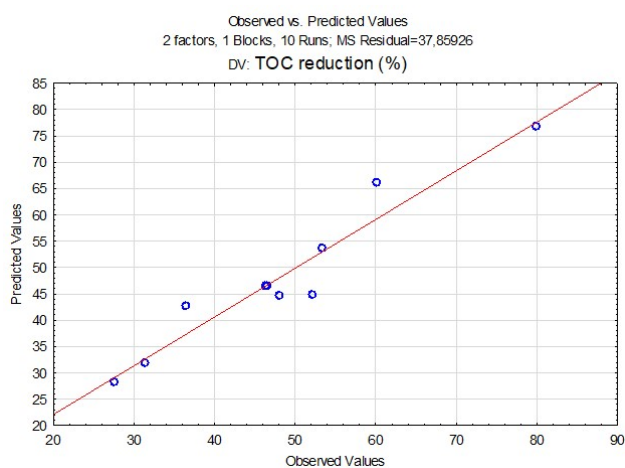


Figure S 4. Graph of predicted values versus observed values for the response variable of TOC reduction (%).