

Recovery of Sugars from Biomass Hydrolyzate by Lime Addition

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Lime addition is a simple, efficient method for isolating sugars from the mixture of glucose, xylose, acetic acid, and sulfuric acid, which are the typical products from the biomass hydrolysis. In this study, we optimized the important process parameters of lime addition method to isolate sugars. The optimal lime type, sulfuric acid/ calcium carbonate molar ratio, and operation time were calcium carbonate, 1/1.1, and 12 min, respectively. In the model solution of glucose, xylose, acetic acid, and sulfuric acid, the removal of sulfuric acid was 90% under the aforementioned optimal conditions.