TRABALHOS APRESENTADOS EM EVENTOS

MONTEIRO, A. F. et al. Açaí (*Euterpe oleracea*) seed biomass processing by diluted acid and enzymatic hydrolysis for sugar production. In: SIMPÓSIO NACIONAL DE BIOPROCESSOS, 21.; SIMPÓSIO DE HIDRÓLISE ENZIMÁTICA DE BIOMASSA, 12., 2017, Aracaju. **Anais**... [S.l.]: Galoá, 2017. p. 1-4. v. 2, 56377.

RESUMO: This study evaluates the potential use of the açaí berry's seed as a source of sugars using a sequential process of diluted acid pretreatment and enzymatic hydrolysis. Results have shown that the açaí's seed most abundant structural sugar is mannan, representing 55.74 wt% of the its total mass. Samples went through diluted sulfuric acid pretreatment in four different conditions, varying acid concentration and residence time. Pretreated biomass went through enzymatic hydrolysis using Novozyme's Cellic Htec2®. The highest yield of mannose was achieved with samples that were pretreated using 3.0% sulfuric acid for 60 min residence time, resulting in 58.5% yield of mannose extraction after a sequential process of acid pretreatment and enzymatic hydrolysis.

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