

Title: **Bibliographic research for the extraction of lignin from Bamboo by-products.**

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Bamboo is a renewable raw material used in many applications from building materials to value-added chemicals. It is chemically rich in lignocellulosic biomass, principally lignin, which is a natural glue in cell walls. This compound makes bamboo by-products, generated from its processing, to be used as potential raw material for developing lignin-based adhesives. Even though, there are no described industrial extraction processes of lignin from bamboo, it has been reported the use of several different methods on a laboratory scale research which showed great results. In addition, lignin is an amorphous natural polymer structurally dependant on the extraction method, thus, it must be characterized to evaluate its subsequent use by different characterization techniques (e.g. FT-IR, NMR, UV, GPC, TGA, DSC). Also, adhesive testing is necessary for evaluating adhesion properties onto different materials.