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# Production and modification of lignin from sugarcane bagasse for biobase in chemical reaction of epoxy production

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**Abstract:**
Bisphenol A (BPA) is an organic synthetic compound with the chemical formula (CH3)2C(C6H4OH)2 belonging to the group of diphenylmethane derivatives and bisphenols, with two hydroxyphenol groups. Lignin is a biobase from sugarcane bagasse to be used as a substitute for BPA in the production of epoxy. In this paper, lignin was extracted under various sodium hydroxide concentrations. These samples were modification in the morphology and chemical composition. After that, chemical structure of the samples were investigated by solid state nuclear magnetic resonance. Lignin and BPA were compared to the chemical formula. The chemical formula of extrated lignin has two aromatic ring and contain methyl and hydroxyl group. In order to study the possibility of using lignin as a biobase in chemical reaction of epoxy production.

**Biography:**
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