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PYROLYTIC PRODUCTS FROM RICE STRAVENZYMATIC/MILD ACIDOLYSIS LIGNIN (F

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Abstract

A pyrolysis tube furnace system was designed to assess the impact of pyrolysis characteristics under nitrogen atmosphere, and pyrolysis ten important factors acting on the samples during pyrolysis. The obtained three groups, i.e. the condensed liquid product (bio-oil), solid product chromatography (GC) was used to analyze ingredients of the light gas a gas chromatography/mass spectrometer (GC/MS) was used to analyze revealed that the volatiles from rice straw pyrolysis exceeded that from 700oC as a result of the higher char generation from lignin pyrolysis. Itemperature, the yield of char decreased and light gas persistently inc was maximized at 500oC. In the gas product, H2, CO, CO2 and some C2H4 and C2H6) could be found, and H2 and CO were abundant. Com lignin were simple and consisted of aromatic hydrocarbons, chain hydrocarbons, chain hydrocarbons.