

食品—研究报告

生物质醋液生产原料筛选及其转化技术研究

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摘要:

中国是农业大国, 农林生物资源丰富, 但农林生物质利用还很局限, 项目将从植物资源综合利用的角度出发, 重点介绍生物质醋液生产原料的筛选、基本理化性质与得率的变化情况以及转化技术的研究, 并确定生物质醋液的最佳工艺参数和生产流程。最终寻求一种农林生物质高效、无公害、资源化利用的方法, 研制出高效稳定的醋液, 对下一步作为植物生长调节剂、发展有机生态农牧业和走可持续发展之路提供技术支撑和服务平台。试验结果表明: 在相同条件(温度、通风量等)下, 以芦苇为原材料, 将含水率调节到15%左右, 热解温度调到600℃, 通过精制方法所获得的醋液得率高, 焦油含量低, 质量好, 再利用静置方法静置4~6个月, 所获得的醋液pH变化小、性质较为稳定、成本低、效果最好。

关键词: 静置

Row Materials Screening and Conversion Technologies of Vinegar Biomass

Abstract:

China is a large agricultural country, which has rich in biological resources, agriculture and forestry, but forest biomass is still limited to be used. So From the perspective of comprehensive utilization of plant resources, focusing on the raw production screening of biomass vinegar, physical and chemical properties, yield changes and the technology conversion, and determined the optimal process parameters and production processes of biomass vinegar. Ultimately find a highly efficient, non-pollution, resource use of the method for forestry biomass, and to develop a highly efficient and stable vinegar solution. The next step as a plant growth regulator, the way to develop organic farming and sustainable ecological would provide technical support and service platform. The results showed that: In the same conditions (temperature, ventilation, etc.), the reed as raw materials would be adjusted the moisture content to 15% and of the pyrolysis temperature to 600℃, and the vinegar obtained were high yield, low tar and good quality, Then, standing for 4-6 months, the vinegar obtained were small changes in pH, the nature stable, low cost and the best results.

Keywords: standing

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