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食品-研究报告

不同品种烤烟鲜叶表面提取物主要成分比较

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摘要:

为研究贵州主栽烟草品种的品质特征,开发生产特色优质烟服务。2009年选取4个贵州省主栽烟草品种为对象,研究其叶表面提取物特征。所用品种包括'云烟85'、'K326'、'贵烟201'和'南江3号',每个品种均分下中上3个部位采取成熟鲜叶,用二氯甲烷提取叶表面物质进行分析检测。结果表明:烤烟(Nicotiana Tabacum)叶表面提取物主要包括烟碱、新植二烯、腺毛分泌物和烷烃类。不同品种叶表面提取物主要成分含量存在一定差异。四个品种叶表面提取物总量、新植二烯含量和腺毛分泌物含量的排序为'南江3号'<'K326'、'贵烟201'<'云烟85',烷烃物质平均含量排序为'南江3号'<'云烟85'、'贵烟201'<'长326'。各品种烟叶腺毛分泌物中松香油平均含量与其它萜烯类物质总量相当,西柏三烯二醇含量大于西柏三

"K326"。各品种烟叶腺毛分泌物中松香油平均含量与其它萜烯类物质总量相当,西柏三烯二醇含量大于西柏三烯一醇含量,α-西柏三烯二醇平均含量是β-西柏三烯二醇含量的2倍以上。各品种烷烃物质含量均以中部叶含量最低,其原因有待进一步研究分析。

关键词: 烤烟;叶表面提取物;萜烯类;西柏三烯醇

Comparison of Major Cuticular Components from Cured Leaves of Different Fluecured Tobacco Varieties

Abstract:

In order to find the leaf quality characteristics of major grown tobacco varieties for the purpose of producing special quality leaves, we selected four tobacco varieties, 'Yunyan 85', 'K326', 'Guiyan 201' and 'Nanjiang 3', which were widely grown in Guizhou, to study the characteristic of leaf cuticular components. The major cuticular components from cured leaves at three plant positions of four flue-cured tobacco varieties grown in Guizhou were analyzed after extracted with methylene chloride. The results showed that the major cuticular components of cured leaf were nicotine, neophytadiene, trichome exudates and alkanes, the amount of which varied among various varieties. The order of total cuticular components, neophytadiene and trichome exudates for four varieties, from low to high was 'Nanjiang 3', 'K326', 'Guiyan 201' and 'Yunyan 85'. The average content of rentinol was roughly equal to the total amount of all other terpenes, the average content of cembratriene-diol was more than that of cembratriene-ol, the level of a-cembratriene-diol was more than twice as that of β -cembratriene-diol. The average levels of alkanes from middle position leaves of all varieties were the lowest; further research is needed to explore the causes.

Keywords: flue-cured tobacco cuticular components terpenes cembratriene-diol

收稿日期 2010-05-31 修回日期 2010-08-01 网络版发布日期 2011-03-01

DOI:

基金项目:

贵州烟草专卖局(公司)科技重大专项

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