



中文标题 检索 药刊检索

西双版纳野生薏苡种质资源的性状比较

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中文摘要:目的: 对生于我国西双版纳地区海拔550-1 550 m不同生态环境中的野生薏苡种质资源的植物学、生物学及经济学性状进行对比分析,为薏苡品质改良提供育种材料。方法:通过小区栽培对比实验,比较9种野生薏苡种质的种子发芽率、生育期及生长状况,并对出米率、薏苡仁中蛋白质、粗脂肪及乙醇浸出物含量等农艺和经济学性状进行测定。结果:9份野生薏苡种子发芽率为22%~80%,生育期在139~156 d,属中晚熟类型,不同种质之间株高、叶片大小、分蘖数、分枝数、单茎结实数等具有显著差异;乙醇浸出物均在5.8%以上,大于5.5%的药典标准;脂肪在5.05%~7.14%;蛋白质在15.63%~25.74%。结论:西双版纳地区野生薏苡种质资源在植株形态特征、生物学及品质特性方面均存在较大差异,多样性丰富。

中文关键词: 薏苡 野生种质 生物学性状 经济学性状 西双版纳

Characteristics of germplasm resources in *Coix* from Xishuangbanna

Abstract: Objective: To evaluate the genetic diversity among wild germplasm resources of *Coix* that distributed at altitude of 550-1 550 m in Xishuangbanna, Yunnan province by comparing the morphological variation, biological and economical factors. Method: The field plot experiments were conducted to observation the germination rate, growth period. While the milled rice rate, content of protein, crude fat and ethanol extract of 9 wild *Coix* germplasm resources were measured. Result: The germination rate of 9 germplasm was from 22% to 81%, and the growth period was among 139-156 d, which belongs to the medium-late mature type. The germination rate, growth stage, plant height, leaf length and width, tiller number, ramification number, seed number per stem of 9 *Coix* germplasm were significantly different ($P < 0.05$), respectively. The range of seed total protein contents were from 15.63% - 25.74%, crude fat contents were from 5.05%-7.14%, and the contents of alcohol extract, which showed antitumor activity, were from 5.85%-7.27%. Conclusion: The fact of quite different in plant morphological, biological and quality characters of 9 germplasm suggested that the genetic diversity in the wild populations of *Coix* distributed throughout the regions of Xishuangbanna is relatively abundant.

keywords: *Coix* wild germplasm resources biological character economical character Xishuangbanna

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