



牛膝种子质量研究

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中文摘要:目的:分析不同来源牛膝种子质量,初步制定牛膝种子质量分级标准。方法:种子重测定应用百粒重法,双层滤纸法测定了种子发芽率,高温烘干法测定了种子水分含量,种子净度分析采用GB/T3543.3——“农作物种子检验规程”执行。对8份通过初步分级的牛膝种子设计了田间试验小区种植。结果:33份牛膝种子的千粒重在0.69~3.54 g,变异系数24.83%;发芽率在19.02%~99%,变异系数38.24%;种子水分含量和净度变异较小。聚类分析表明,对牛膝种子分级影响最主要的是种子发芽率,并将33份种子分为三级,一级23份,二级和三级各5份。8份不同级别种子田间植株生长及产量性状表现明显差异。结论:牛膝种子质量差异较大,对药材市场的种子进行分级管理很有必要,种植前进行简单的发芽率测定是进行生产管理的有效方法。

中文关键词:牛膝 种子 质量

Study on seed quality of *Achyranthes bidentata*

Abstract:Objective: To study the seed quality of *Achyranthes bidentata* from different sources and establish a standard of seed quality grading. Method: Seed weight and moisture content determination, germination test, purity analysis were carried out by 100 grains method, high-temperature drying, double deck filter paper and GB/T3543.3-Seed Testing for Crops methods respectively. Eight collections were planted in several field plots. Result: The 1 000 grains weight of 33 collections is 0.69 to 3.54 g with a variance coefficient 24.83%, the germination rate between 19.02% to 99% with a variance coefficient 38.24%. Seed moisture content and purity showed no significantly difference. K-means cluster analysis showed that 33 collections were divided into 3 grades: the first grade including 23 collections, the second and third grade including 5 collections respectively. Eight collections showed different field growth and yield characters. Conclusion: There are significant differences in seed quality of *A. bidentata*, so the classification management is needed in medicinal materials market. Germination test is an effective method before cultivating.

keywords: *Achyranthes bidentata* seed quality

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