


 中文标题

巫山淫羊藿分蘖芽组织培养研究

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作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
周海琴	ZHOU Hai-qin	南京农业大学 中药材研究所 江苏 南京 210095	Institute of Chinese Medicinal, Nanjing Agricultural University, Nanjing 210095, China	
朱国胜	ZHU Guo-sheng	南京农业大学 中药材研究所 江苏 南京 210095	Institute of Chinese Medicinal, Nanjing Agricultural University, Nanjing 210095, China	
郭巧生	GUO Qiao-sheng	南京农业大学 中药材研究所 江苏 南京 210095	Institute of Chinese Medicinal, Nanjing Agricultural University, Nanjing 210095, China	gqs@njau.edu.cn
刘作易	LIU Zuo-yi	贵州现代中药材研究所 贵州 遵阳 550006	Institute of Morden Chinese Medicinal Materials, Guizhou Academy of Agricultural Sciences, Guiyang 550006, China	liuzoysi@yahoo.com.cn
周宁	ZHOU Ning	贵州同济堂制药有限公司 贵州 遵阳 550002	Guizhou Tongji堂 Pharmaceutical Co., Ltd., Guiyang 550002, China	

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中文摘要:目的:建立巫山淫羊藿的组培快繁体系,为实现其工厂化育苗提供理论依据。方法:以巫山淫羊藿分蘖芽为外植体,MS,WPM为基本培养基,添加不同浓度6-BA,NAA,GA₃等植物生长调节物质,对芽的诱导与增殖条件进行了系统研究。结果:芽适宜的消毒方法为75%乙醇消毒30 s,再用0.1% HgCl₂连续2次消毒(4+2) min,污染率可控制在5%以内,存活率为75%。芽诱导适宜的培养基为WPM+6-BA 2.0 mg · L⁻¹+NAA 0.1 mg · L⁻¹+GA₃ 0.5 mg · L⁻¹,诱导率为75.5%,且基本培养基和6-BA对诱导率的影响达到极显著水平;芽增殖的适宜培养基为WPM+6-BA 2.0 mg · L⁻¹+NAA 0.5 mg · L⁻¹,增殖系数为3.3;最佳生根培养基为1/2 WPM+IBA 0.5 mg · L⁻¹+0.05%活性炭,生根率为90%,每株3~6条根,苗生长健壮。结论:筛选出了分蘖芽适宜的消毒方法及不定芽诱导、增殖和生根适宜的培养基,建立了巫山淫羊藿分蘖芽的组培快繁体系。

中文关键词:[巫山淫羊藿 组织培养 从芽 生根 株株再生](#)

Tissue cultivation of tiller buds of *Epimedium wushanense*

Abstract:Objective: To established the rapid tissue propagation system of *Epimedium wushanense*, in order to provide theoretical basis for industrialized seed cultivation. **Method:** Tiller buds of *E. wushanense* were used as explants, with MS, B5, WPM as basic media, and added with different concentrations of plant growth regulators such as 6-BA, NAA and GA₃, in order to conduct a systematic study on induction and propagation conditions for tiller buds. **Result:** The suitable method for sterilizing bud was to disinfect with 75% ethanol for 30 s, and then treated with 0.1% HgCl₂ for (4+2) min for consecutively twice, which could control the pollution rate below 5% and the survival rate above 75%. The optimal medium for bud induction was WPM+6-BA 2.0 mg · L⁻¹+NAA 0.1 mg · L⁻¹+GA₃ 0.5 mg · L⁻¹, with the induction rate of 75.5%; meanwhile, the basic medium and 6-BA showed significant effect on the induction rate. The propagation medium suitable for buds was MS+6-BA 2.0 mg · L⁻¹+NAA 0.5 mg · L⁻¹, with the propagation rate of 3.3. The optimal growth of rooting medium was 1/2 WPM+IBA 0.5 mg · L⁻¹+activated carbon(0.05%), with the rooting rate of 90%, three to six strong seedlings in each plant. **Conclusion:** The disinfection method suitable for tiller buds and the medium combination suitable for induction, propagation and rooting of adventitious buds are screened out to establish the rapid cultivation system for tiller buds of *E. wushanense*.

keywords:[Epimedium wushanense](#) tissue culture clustered shoots plant regeneration[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)

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