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中国中药杂志 **China Journal of Chinese Materia Medica** 

不同遮阴条件下天全岩白菜生长状态及生理变化的研究

投稿时间: 2010-07-25 责任编辑: 吕冬梅 点此下载全文

引用本文:黎云祥·廖兴利·权秋梅·不同遮阴条件下天全岩白菜生长状态及生理变化的研究[J].中国中药杂志,2011,36(2):117.

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基金项目:四川省科技厅应用基础项目(2008JY0158); 教育部重点实验室开放基金项目(XNYB09-04);四川省教育厅项目(09ZX011)

中文摘要:目的: 分析不同光照条件下(100%,80%,60%,40%,20%)天会岩白菜的生长和生理指标。探讨了天全岩白菜对不同光强环境的生理适应机制,为天全岩白菜牛产栽培提供理论依据。 方法: 以天全岩白菜为研究对象,测定其前中叶长、叶宽、新叶敷量、新中叶面积、鲜宝、干重、比叶重及光合色素、两二醛(MDA)、可溶性糖、可溶性蛋白、溶液酶废酸含量和超氧化物皮化酶(SOD) 活性。 结果: 生长积形态指标在100%,80%,60% 处理于均高于40%。20%处理,时份%。40%,在10%。40%。在10%。80%,60% 处理于均高于40%。20%处理,时景绿心值在40%。20%处理下高于100%。80%,60%处理,对高性营血及溶液酶强度含量在100%。80%,60%处理,均是绿心的在40%。20%处理,对高于40%。20%处理所为高于40%。20%处理所为高于40%。20%处理所为高于40%。20%处理所为高于40%。20%处理所为高于40%。20%处理所为高于40%。20%处理所为高于40%。20%处理所为高于40%。20%处理和内含量在60%。处理是能力,可溶性整点的表情推含的%处理与均高,40%。20%处理,11、10%。80%,20%处理,11、10%。80%。20%处理,11、10%。80%。20%处理,11、10%。80%处理,11、10%处理,11、10%处理,11、10%处理,11、10%处理,11、10%处理,11、10%处理,11、10%

中文关键词:天全岩白菜 遮阴 生理 生长

## Research on growth state and physiological changes of Tianquan Bergenia purpurascens under different shade conditions

Abstract/Objective: To study the growth index and physiological index of Tianquan Bergenia purpurascens under different shade conditions (100%, 80%, 60%, 40%, 20%), and investigate its adaptation mechanism to shade environment so that it can provide theoretical basis for cultivation and production. Method: The growth index such as the length, the width and the number of new leaves, and leaf area, fresh weight, dry weight and specific leaf weight of the samples which were collected from the beginning of March to late May under different shade conditions were measured. The physiological index including the contents of photosynthetic pignents, MDA soluble sugar, soluble protein, proline and the activity of SOD were measured all tegether. Result: The growth and morphological index under light intensity 100%-60% were higher than those under leight intensity specific leaf weight, the growth and morphological index were significantly higher under light intensity 60% than those under the other shade conditions; The contents of Chla, Chlb, Chl (a+b) and Car under light intensity 100%-60% were higher than those under light intensity 40%-20%; and except light intensity 40%-20%; and except content and activity of SOD were the highest under light intensity 40%-60%, while MDA content was higher under light intensity 50%. Chl(a+b) content, soluble sugar content and activity of SOD were the highest under light intensity 50%, but MDA content was the lowest. Conclusion: Sixty percent irradiance treatment was negative for its growth, 40%-20% irradiance treatment was negative for its growth, while MDA content was the lowest. Conclusion: Sixty percent irradiance treatment was negative for its growth. Abstract: Objective: To study the growth index and physiological index of Tianguan Bergenia purpurascens under different shade was negative for its growth.

keywords: Tianquan Bergenia purpurascens sunshade physiology growth

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