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植物生长调节剂缩节胺对黄芩活性成分含量的影响

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中文摘要:目的:分析植物生长调节剂缩节胺对黄芩生长发育和活性成分含量的影响。 方法: 于一年生黄芩展叶期喷施缩节胺测量基本 根上核高、根长、根直各组模增重;利用PPLC测定根中填芩苷、黄芩素和汉黄芩素的含量利用煤外分光光度法测定根的总黄酮含量和PPPH清涤率。 结果: 鸣施缩节胺店间模型显著增加-根长息素变粗-根中安寸和总黄酮含量息著升高-黄芩素和汉黄芩素含量显著降低-喷施省*珍底的埃尔基根型取物对DPPH自由基的消除作用-对照组无显著差异。 胡论: 黄芩原叶则藤用盾它股可以有 效调节黄芩地上部与地下部生长发育,对根中黄酮类成分含量的提高有一定促进作用。

中文关键词:缩节胺 黄芩 有效成分

 $Effects \ of \ plant \ growth \ regulator \ mepiquat \ chloride \ on \ content \ of \ active \ compounds \ in \ \textit{Scutellaria}$ baicalensis

Abstract:Objective: To study the effect of plant growth regulator mepiquat chloride (DPC) on the growing development of plant and the content of active compounds in Scatellaria baicalensis. Method: After spraying DPC during the seedling period, the length of laproot, fresh weight of root, diameter of laproot and the length of stem were measured. The contents of baicalin, baicalein and wogonin were determined by HPLC, respectively. Total flavonoids and scavening DPPH stem electrimined with ultraviolet spectrophotometry. Result respraying DPC, fresh weight of S. baicalensis root was significant increased, and root diameter was also increased. The contents of baical and total flavonoids were significantly increased and baicalein and wogonin were decreased remarkably. Compared with controls, scavenging activity of ethanol extracts on DPPH free radical was no significant changed after spraying DPC. Conclusion: Plant growth regulator DPC could regulate the growth on the ground and underground effectively, and could enhance the content of flavonoids compounds of S. baicalensis.

 ${\bf keywords:} \underline{{\bf mepiquat\ chloride}\ \ } \underline{{\it Scutellaria\ baicalensis}\ \ } \underline{{\it active\ compounds}}$

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