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论文

桔梗悬浮培养对细胞天麻素的生物转化

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摘要:

关键词: 桔梗 天麻素 生物转化 悬浮培养细胞

BLOTRANSFORMATION OF GASTRODIN BY CELL SUSPENSION CULTURE OF PLATYCODON GRANDIFLORUM

DAI Jun-gui; LU Dan-dan; CUI Ya-jun; GUO Hong-zhu; ZHENG Jun-hua; GUO De-an

Abstract:

AIM To modify the structure of gastrodin using cell suspension cultures of Platycodon grandiflorum as biocatalyst. METHODS Using plant tissue and cell culture techniques to establish cell suspension cultures, and chromatographic and spectral techniques to isolate and identify the product. RESULTS 1) The medium of MS + 5.0 mg·L⁻¹ NAA was good for the induction and growth of the callus cultures, and that of MS + 0.5 mg L^{-1} NAA + 0.5 mg L^{-1} 6-BA + 0.2 mg L^{-1} 2,4-D for the growth of suspended cell cultures. 2) Gastrodin was bioconverted to P-hydroxy-methyl-phenol, the deglucosylderivative, in good yield by cell suspension cultures of Platycodon grandiflorum. CONCLUSION Biotransformation using plant 1 果德安 cell suspension cultures is an approach to structural modification of some natural products.

Keywords: Platycodon grandiflorum biotransformation cell suspension cultures gastrodin

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