

论文

反相高效液相色谱分析赤霉素GA₃含量

朱曙东;赵琛;赵文君;赵升皓

徐州医学院生物化学研究室,徐州221002

摘要:

以μBondapak C₁₈柱建立了赤霉素GA₃的HPLC分析方法。反相HPLC梯度条件可使GA₃与包括双键异构体GA₁在内的其它同系物通过离子配对机制获得分离。此法操作简便,不需衍生化;分析快速,色谱全程仅15 min;检测灵敏,0.5μg即可准确定量;线性(r=0.999,n=5)、重复性(RSD<2%,n=4)均佳;结果准确。优越性全面超出各传统分析方法,可望成为赤霉素质量分析的标准方法。

关键词: 赤霉素A₂(GA₃) 反相高效液相色谱

DETERMINATION OF GIBBERELLIN A₃ BY REVERSED PHASE HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

SD Zhu; S Zhao; WJ Zhao and SH Zhao

Abstract:

The analysis of gibberellin GA₃ by high performance liquid chromatography (HPLC) was carried out with μBondapak C₁₈ column. The developed reversed phase HPLC procedure enables the separation of different GAs with high resolution by means of ionic suppression, including the separation of double bond isomers GA₁ and GA₃. This method is convenient (without the necessity of derivatization), rapid (15 min for one overall run), sensitive (0.5 μg is sufficient for precise assay), and has fine linearity (r= 0.999, n=5) and reproducibility (relative standard deviation<2%, n=4).

Keywords: Reversed phase high performance liquid chromatography Gibberellin A₃ (GA₃)

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作者简介:

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