

RESEARCH NOTES

用非对映体盐结晶法调节酒石酸的光学分辨率——探讨及优化实验条件的一种实用方法

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摘要 A response surface modeling approach for simultaneous optimization of optical purity and yield was applied to the resolution of tartaric acid to study the effects of both the amount of the solvent and the amount of the resolving agent α -methylbenzyl amine on the resolution results. The direction of changing the experimental conditions was determined from the initial response study, and expected high yield of the pure L(+)-tartaric acid-L(-)- α -methylbenzyl amine salt was obtained.

关键词 [resolution](#) [optimization](#) [central composite rotatable design](#) [modeling](#)

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Optical Resolution of DL-Tartaric Acid Mediated by Diastereomeric Salts Crystallization: A Useful Method for Exploring and Optimizing Experimental Conditions

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Abstract A response surface modeling approach for simultaneous optimization of optical purity and yield was applied to the resolution of tartaric acid to study the effects of both the amount of the solvent and the amount of the resolving agent α -methylbenzyl amine on the resolution results. The direction of changing the experimental conditions was determined from the initial response study, and expected high yield of the pure L(+)-tartaric acid-L(-)- α -methylbenzyl amine salt was obtained.

Key words [resolution](#); [optimization](#); [central composite rotatable design](#); [modeling](#)

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