

论文

22种氨基酸的纸层析溶剂系统最佳组合选取方法的研究

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摘要:

本文利用“逐步组合法”在TRS-80微型电子计算机上对22种氨基酸的纸层析溶剂系统的最佳组合作出了成功的选取,共选出三组最佳溶剂系统组合,它们的系统号码分别为:7,4,2,1;7,9,4,2;21,17,4,2,其中每一组均能在任意两供试药物的Rf×100的差值大于或等于10的情况下达到该22种氨基酸的完全分离。本文也用“数值分类—信息量选取法”选取系统最佳组合,但未能获得成功的结果。

关键词: 逐步组合法 数值分类—信息量选取法 氨基酸 纸层析

INVESTIGATION OF THE SELECTIVE METHOD FOR OPTIMAL COMBINATION OF PAPER CHROMATOGRAPHIC SOLVENT SYSTEMS OF 22 KINDS OF AMINO ACIDS

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Abstract:

The optimal combination of paper chromatographic solvent systems of 22 kinds of amino acids was made successfully with the stepwise combination method on TRS-80 microcomputer. Three groups of optimal combination of solvent systems were selected. The numbers of optimal combination system are 7, 4, 2, 1; 17, 9, 4, 2; 21, 17, 4, 2. The 22 kinds of amino acids tested could be separated at a level that the difference of Rf × 100 values between any two samples is equal to 10 or more using each combination of the groups mentioned above. At the same time, numerical taxonomic technique-information content method was also used to select the optimal combination of the systems, but no satisfactory results were obtained.

Keywords: Numerical taxonomic technique information content method Amino acids Paper chromatography Stepwise combination method

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