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High-Performance Liquid Chromatography of Antipsychotic Drugs with a Porous Glass ODS

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Liquid chromatography has been rapidly developed recently, especially in capability of good separation in shorter time. Since this instrument is still expensive even today, it is recommended to obtain more information out of a single measurement, that is to say, if more rapid analysis for separation could be achieved, more information would be obtained in a restricted time. From this point of view, the following studies were carried out.

One of the approaches to meet the above requirement is to use the larger column for the increase of flow rate. However, it is not considered to be a economical method, since the large amount of eluent is required. In this studies, therefore, attention was made to improve the packing materials while maintaining the flow rate of eluent kept the same as normal flow rate. We have already tried to regulate the amount of chemical modification on the surface of the packing materials, to vary the carbon chain length, and to change the pore structure of the packing materials. All of the above approaches were found effective for more rapid analysis.

In the present studies, we report that, the good chromatograms were obtained to meet with the above requirements, when porous glass is chemically modified.

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