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**Preparative High-Performance Liquid Chromatography
on Chemically Modified Porous Glass.
Isolation of Saponins from Ginseng*.**

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金沢秀子, 永田佳子, 松島美一, 友田正司, 高井信治**

Preparative high-performance liquid chromatography on octadecylsilyl porous glass (pore size, 550Å) with acetonitrile-water as the mobile phase was applied for the isolation of saponins from *Panax ginseng*. An automatic fraction collection system was used. In a single run, several milligrams of pure ginsenosides were obtained from 10 grams of roots of *Panax ginseng*. The excellent separation may be partly due to the optimal pore size of 550 Å and the narrow distribution range of the size. The composition of organic solvent in the mobile phase was much smaller in HPLC with MPG-ODS than with silica-ODS columns. The savings in organic solvents are advantageous for both economical and environmental reasons. The method was simple, rapid and convenient and should be applicable to isolation of other saponins of crude drugs.

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