

Title	HPLC analysis of ginsenosides in panax ginseng extracts using glass-ODS column
Sub Title	
Author	金沢, 秀子(Kanazawa, Hideko) 永田, 佳子(Nagata, Yoshiko) 松島, 美一(Matsushima, Yoshikazu) 友田, 正司(Tomoda, Masashi) 高井, 信治(Takai, Nobuharu)
Publisher	共立薬科大学
Publication year	1987
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.32 (1987.) ,p.112- 112
JaLC DOI	
Abstract	
Notes	学会講演要旨
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000032-0117

慶應義塾大学学術情報リポジトリ(KOARA)に掲載されているコンテンツの著作権は、それぞれの著作者、学会または出版社/発行者に帰属し、その権利は著作権法によって保護されています。引用にあたっては、著作権法を遵守してご利用ください。

The copyrights of content available on the KeiO Associated Repository of Academic resources (KOARA) belong to the respective authors, academic societies, or publishers/issuers, and these rights are protected by the Japanese Copyright Act. When quoting the content, please follow the Japanese copyright act.

HPLC Analysis of Ginsenosides in *Panax ginseng* Extracts Using Glass-ODS Column

金沢秀子, 永田佳子, 松島美一, 友田正司, 高井信治*

[11th International Symposium on Column Liquid Chromatography
(1987年7月, Amsterdam, The Netherlands) で発表]

The paper is concerned with a high performance liquid chromatographic (HPLC) method using a column of octadecylsilil (ODS) porous glass for separation and quantitative determination of ginsenosides in *Panax ginseng* extracts and in pharmaceutical preparations.

Acetonitril-water was used as the mobile-phase. The retention times of ginsenosides were greatly affected by the water content of the mobile phase. Ginsenosides Rb₁, Rb₂, Rc, Rd, Rf and Rg₂ were separated with acetonitrile-water (27.5 : 72.5) with a flow-rate of 1 ml/min. Also a well-resoluted chromatogram of ginsenosides Re, Rg₁ and Ro was obtained with acetonitrile-water (16.5 : 83.5) with a flow-rate of 1 ml/min. The whole separation was achieved in 12 min. The calibration curve of each ginsenoside has a correlation coefficient very near to unity.

The rapid and accurate analysis of ginsenosides is possible by the present method.

* 東京大学生産技術研究所

Porphyryns with Metal-chelating Groups in the Peripheral Region*

松島美一, 菅田節朗

[3rd International Conference on Bioinorganic Chemistry,
(1987年7月, Noordwikerhout, The Netherlands) で発表]

A porphyrin with metal-chelating groups in the peripheral region is expected to find wide application in medical and analytical sciences. As models of such porphyrins, we prepared *meso*-tetra[5-(8-hydroxyquinoly)]porphine and one of its isomer, *meso*-tetra[2-(8-hydroxyquinoly)]porphine.

The porphyrins are represented by $\text{PH}_2(\text{QOH})_4$, where PH_2 stands for the porphine moiety with two pyrrole hydrogens, and QOH for the quinolinol moiety. Three kinds of metal complexes are possible for the porphyrins. These are free base porphyrin with metal chelated 8-quinolinol group ($\text{PH}_2(\text{QOM})_4$), metalloporphyrin with unchelated quinolinol ($\text{PM}(\text{QOM})_4$) and metalloporphyrin with metal chelated quinolinol ($\text{PM}(\text{QOM})_4$),