

Title	A reticuloendothelial system activating glycan from the rhizomes of curcuma longa
Sub Title	
Author	友田, 正司(Tomododa, Masashi) 権田, 良子(Gonda, Ryoko) 清水, 訓子(Shimizu, Noriko) 金成, 美枝子(Kanari, Mieko) 木村, 都(Kimura, Miyako)
Publisher	共立薬科大学
Publication year	1990
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.35 (1990.) ,p.37- 37
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000035-0037

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.

A Reticuloendothelial System Activating Glycan from the Rhizomes of *Curcuma longa**

† Masashi TOMODA, Ryōko GONDA, Noriko SHIMIZU, Mieko KANARI
and Miyako KIMURA

友田正司, 権田良子, 清水訓子, 金成美枝子, 木村 都

From the hot water extract of the rhizomes of *Curcuma longa*, a glycan, named ukonan A, has been isolated by fractionation on DEAE-Sephadex A-25 followed by chromatography on Con A-Sepharose and Sephacryl S-300 columns. The glycan showed remarkable reticuloendothelial system potentiating activity in the carbon clearance test.

The glycan was composed of a polysaccharide (92.7%) and a peptide moiety (7.3%). The polysaccharide was composed of L-arabinose, D-xylose, D-galactose, D-glucose, L-rhamnose and D-galacturonic acid in the molar ratio of 12: 4: 12: 1: 4: 10. Gel chromatography gave a value of 1.1×10^5 for its molecular mass. It gave a single band on PAGE, and a single peak on gel chromatography.

Chemical and spectroscopic studies established that the minimal unit of the polysaccharide is composed of twelve terminal α -L-arabinofuranose, four α -1,5-linked L-arabinofuranose, eight α -1,3-linked L-arabinopyranose, one β -1,4-linked D-xylopyranose, seven β -3,4-branched D-xylose, nine terminal β -D-galactose, three β -1,3-linked D-galactose, three β -1,6-linked D-galactose, nine β -3,6-branched D-galactose, one terminal α -D-glucose, one α -1,4-linked D-glucose, two α -1,2-linked L-rhamnose, six α -2,4-branched L-rhamnose and twenty α -1,4-linked D-galacturonic acid residues.

* 本報告は *Phytochemistry*, **29**, 1083—1086 (1990) に発表.