| | |
|---|---|
| Title | Plant mucilages. XLIII. a representative mucilage with biological activity from the leaves of hibiscus rosa-sinensis |
| Sub Title | |
| Author | 清水, 訓子(Shimizu, Noriko)<br>友田, 正司(Tomoda, Masashi)<br>鈴木, いずみ(Suzuki, Izumi)<br>高田, 勝利(Takada, Katsutoshi) |
| Publisher | 共立薬科大学 |
| Publication year | 1993 |
| Jtitle | 共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.38 (1993. ) ,p.46- 46 |
| JaLC DOI | |
| Abstract | |
| Notes | 抄録 |
| Genre | Technical Report |
| URL | https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000038-0046 |

# Plant Mucilages. XLIII. A Representative Mucilage with Biological Activity from the Leaves of *Hibiscus rosa-sinensis**

Noriko SHIMIZU, Masashi TOMODA, Izumi SUZUKI and Katsutoshi TAKADA

清水訓子, 友田正司, 鈴木いずみ, 高田勝利

A representative mucilage, called Hibiscus-mucilage RL, was isolated from the leaves of *Hibiscus rosa-sinensis* L. It was homogeneous on electrophoresis, and its molecular mass was estimated to be roughly $1.0 \times 10^7$. Its intrinsic viscosity value in aqueous solution was 23.2. The major constituent is an acidic polysaccharide composed of L-rhamnose : D-galactose : D-galacturonic acid: D-glucuronic acid in the molar ratio of 5 : 8 : 3 : 2. Methylation analysis, partial hydrolysis and nuclear magnetic resonance studies indicated its main structural features including a unique backbone chain composed of $\alpha$-1,4-linked D-galactosyl $\alpha$-1,2-linked L-rhamnosyl $\alpha$-l,4-linked D-galacturonic acid units. The mucilage showed considerable anti-complementary activity.

* 本報告は *Biol. Pharm. Bull.*, **16** (8), 735—739 (1993) に発表.