

Title	Palladium (II) chelates of 1, 1-dimethyl-3-(4-methyl-2-thiazolyl)-thiourea and related thioureas
Sub Title	
Author	与田, 玲子(Yoda, Reiko) 山本, 有一(Yamamoto, Yuichi) 松島, 美一(Matsushima, Yoshikazu) 藤江, 忠雄(Fujie, Tadao) 飯高, 洋一(Iitaka, Yoichi)
Publisher	共立薬科大学
Publication year	1986
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.31 (1986.) ,p.54- 54
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000031-0054

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.

**Palladium(II) Chelates of 1, 1-Dimethyl-3-(4-methyl-2-thiazolyl)-
thiourea and Related Thioureas***

Reiko YODA, Yuichi YAMAMOTO, Yoshikazu MATUSHIMA,
Tadao FUJIE and Yoichi IITAKA**

与田玲子, 山本有一, 松島美一, 藤江忠雄, 飯高洋一**

We reported previously that 1,1-dimethyl-3-(4-methyl-2-thiazolyl)thiourea and related N-(2-thiazolyl)thioureas are potentially useful chelating agents for spectrophotometric determination of metal ions. Facile and sensitive methods for the determination of Pd(II) with 1,1-dimethyl-3-(4-methyl-5-nitro-2-thiazolyl)thiourea and 1,1-dimethyl-3-(4-p-nitrophenyl-5-nitro-2-thiazolyl)thiourea were proposed.

In order to establish the identity of colored substances in the spectrophotometric determination, we prepared Pd(II) chelates of 1,1-dimethyl-3-(4-methyl-2-thiazolyl)thiourea, 1,1-dimethyl-3-(4-phenyl-2-thiazolyl)thiourea, 1,1-dimethyl-3-(4-methyl-5-nitro-2-thiazolyl)thiourea, 1,1-dimethyl-3-(4-p-nitrophenyl-2-thiazolyl)thiourea, 1,1-dimethyl-3-(4-p-nitrophenyl-5-nitro-2-thiazolyl)thiourea, and 1,1-diethyl-3-(4-methyl-5-nitro-2-thiazolyl)thiourea. The molecular structures the prepared Pd(II) chelated were determined by means of spectroscopic, thermochemical, and X-ray crystallographic measurements. The results indicated that Pd(II) formed 1 : 2 chelates with the thioureas and that the ligands were bidentate and coordinated through the thiourea sulfur and thiazole nitrogen atoms. The geometry of Pd(II) coordination was roughly square-planar and the configuration of the two thiazolylthiourea molecule was cis.

* 本報告は *Chem. Pharm. Bull.*, **33**, 4935 (1985) に発表.

** 東京大学薬学部.