

Title	N, N-dimethyl-N'-(4-p-nitrophenyl-5-nitro-2-thiazolyl) thiourea. a new chelating agent for palladium.
Sub Title	
Author	与田, 玲子(Yoda, Reiko) 山本, 有一(Yamamoto, Yuichi) 村上, 悠紀雄(Murakami, Yukio)
Publisher	共立薬科大学
Publication year	1983
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.28 (1983.) ,p.85- 85
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000028-0085

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.

***N,N*-Dimethyl-*N'*-(4-*p*-nitrophenyl-5-nitro-2-thiazolyl)thiourea.
A New Chelating Agent for Palladium.***

Reiko YODA, Yuichi YAMAMOTO, and Yukio MURAKAMI

与田玲子, 山本有一, 村上悠紀雄

A new chelating agent for Pd(II), *N,N*-dimethyl-*N'*-(4-*p*-nitrophenyl-5-nitro-2-thiazolyl)thiourea **1** was synthesized. The reagent **1** and its Pd chelate have absorption maxima (λ_{max}) at 363 nm and 430 nm, respectively while the λ_{max} of *N,N*-dimethyl-*N'*-(4-methyl-5-nitro-2-thiazolyl)thiourea and its Pd chelate are at 362 nm and 413 nm, respectively.

Thus the replacement of methyl group by *p*-nitrophenyl group caused a large red shift in Pd(II) chelate. The Pd(II)-ligand ratio in the chelate was proved to be 1 : 2 by the molar ratio method and by continuous variation method. The analytical procedure for the determination of Pd(II) with **1** is described. The method permits the accurate determination of Pd(II) in solution and was applied to the Pd(II) analysis in palladium-asbestos.

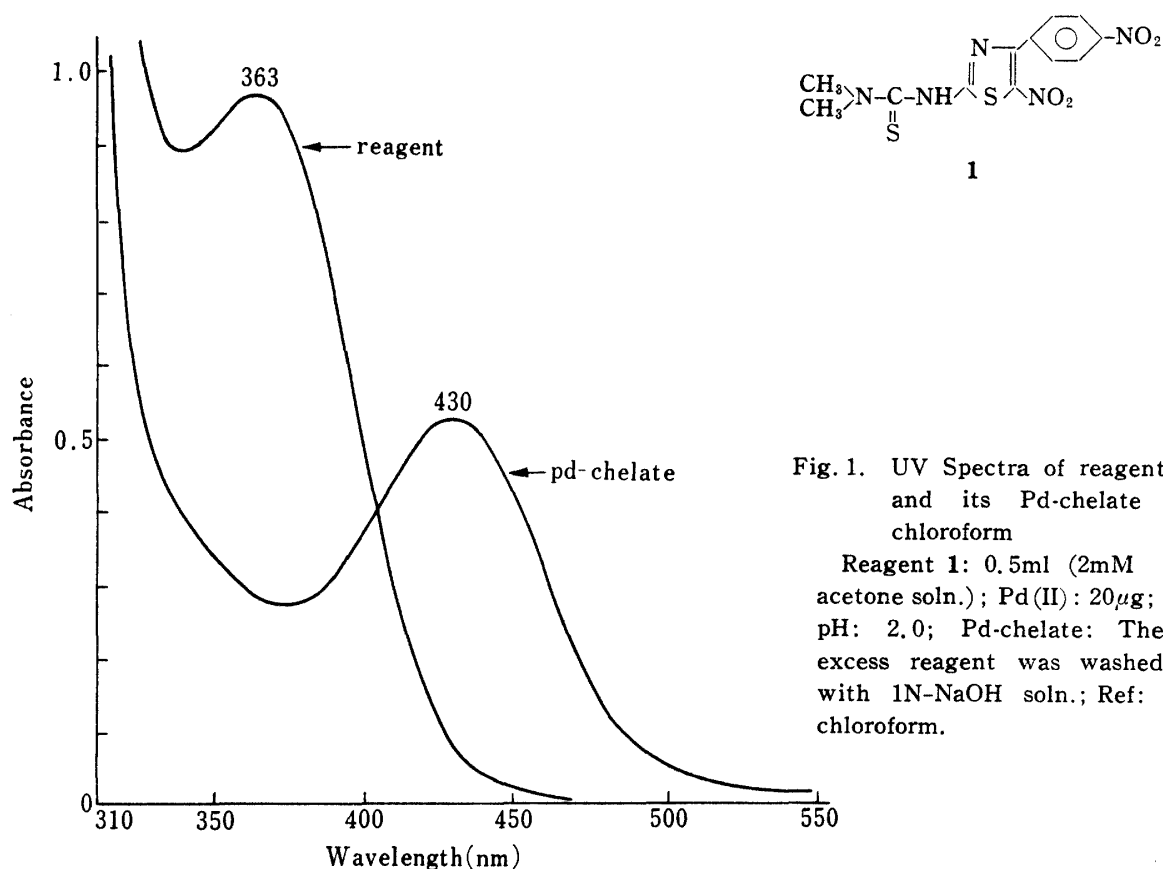


Fig. 1. UV Spectra of reagent **1** and its Pd-chelate in chloroform

Reagent **1**: 0.5ml (2mM acetone soln.); Pd(II): 20 μ g; pH: 2.0; Pd-chelate: The excess reagent was washed with 1N-NaOH soln.; Ref: chloroform.

* 本報告は *Microchimica Acta* [Wien] 1983 II, 75—83 に発表