

Title	Preparation and physicochemical properties of new crystalline complexes composed of fatty acids and 3-aminopyridine
Sub Title	
Author	横山, 祥子(Yokoyama, Shoko) 春原, 政明(Sunohara, Masaaki) 藤江, 忠雄(Fujie, Tadao)
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.84- 84
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	<a href="https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000038-0084">https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000038-0084</a>

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.

## Preparation and Physicochemical Properties of New Crystalline Complexes Composed of Fatty Acids and 3-Aminopyridine\*

Shoko YOKOYAMA, Masaaki SUNOHARA and Tadao FUJIE

横山祥子, 春原政明, 藤江忠雄

New crystalline complexes composed of fatty acids (FA) and 3-aminopyridine (3AP), FA-3AP, were prepared, and the physicochemical properties of FA-3AP were investigated by elemental analysis, differential scanning calorimetry and infrared (IR) spectroscopy and compared with those of FA-nicotinamide (NAA) complexes, FA-NAA.

The molar ratio of 3AP to FA in the FA-3AP was 1 : 1, the same as FA-NAA. The melting points of FA-3AP were lower than that of the corresponding FA-NAA and FA alone. The relationship between the melting points of FA-3AP and the carbon number ( $n$ ) of the constituent FA took a linear form as shown in FA-NAA, whereas the relationship between the melting points of FA and  $n$  took a zig-zag one. In the IR spectrum, the absorption band near  $1700\text{ cm}^{-1}$  which is the characteristic of the carbonyl stretching vibration was shifted to higher frequency fields by the formation of FA-3AP as observed for FA-NAA. The binding of 3AP to FA seemed to be similar to that of NAA.

---

\* 本報告は *Chem. Pharm. Bull.*, **41**, 1453—1455 (1993) に発表。