Short Communications

Metabolic Products of *Oospora* sp.

Sir:

The present communication is described on three compounds obtained from the mycellium and the culture filtrate of *Oospora* sp.. The studies on the metabolic products of *Oospora* are an underdeveloped field and few metabolites have been reported previously^{1,2)}. The author's microorganism was isolated from the air with Waksman's and Sabouraud's agar.

The microorganism was cultivated on a medium containing the following ingredients as gram per liter; glucose 20, malt extract 20, and peptone 1. The incubation temperature and period were 25°C and 30 days respectively. The dried mycellium was extracted with acetone and this extract was further devided into two parts by treating with hot petroleum benzene.

Crude 0-1 was obtained from soluble portion and recrystallized several times from ethanol as colorless needles, m.p. 129°C. *Anal.* Found: C, 69.59; H, 5.26%, M.W.: 184 (Rast). Calcd. for $C_{11}H_{10}O_3$: C, 69.60; H, 5.37%, M.W. 190.1.

0-1 was a new compound and the authors assumed the following structure by the chemical experiments.

This structure resembles to mellein (ochracin),

1) H. Nisikawa, *This Bulletin*, **12**, 1 (1936); **13**, 1 (1937); *Acta Phytochem.*, **11**, 167 (1939).

2) F. Kögl, G.C. von Wesseim, *Rec. Trav. Chim.*, **63**, 5 (1944).

which was isolated from the culture filtrate of *Aspergillus melleus*³⁾ and *Asp. ochraceus*⁴⁾.

The 0-3 compound was obtained from the insoluble part by hot petroleum benzene. It was recrystallized with methanol as colorless needles, m.p. 280°C and $[\alpha]_D^{25} = +34^\circ$ (pyridine). *Anal.* Found: C, 78.90; H, 10.77%, M.W. 465.8 (Rast). Calcd. for $C_{31}H_{50}O_8$: C, 79.10; H, 10.71%, M.W. 470. This 0-3 compound is now supposing as eburicoic acid⁵⁾ by the several experiments.

The filtrate was treated with carbon and this absorbed carbon cake was extracted with methyl acetate. From this extract, the 0-2 compound was isolated, and recrystallized several times from ethanol as the colorless needles, m.p. 176°C. *Anal.* Found: C, 59.90; H, 3.66%, M.W. 240 (Rast). Calcd. for $C_{11}H_8O_5$: C, 60.00; H, 3.66%, M.W. 220.

This new compound has antibiotic properties to *Staph. aureus* 209-p, *E. coli* 0-112 and *Shigera flexine* EW.-9 as per one mililiter one miligram.

The classification of this microorganism and the determination of 0-2 structure are now proceeding.

Isao YAMAMOTO

Yuzuru YAMAMOTO*

Kobe Municipal Hygienic Laboratory,
Kobe, Japan.

Received August 1, 1960

3) H. Nisikawa, *J. Agr. Chem. Soc. (Japan)*, **9**, 772, 1059 (1933).

4) T. Yabuta and Y. Sumiki, *J. Agr. Chem. Soc. (Japan)*, **9**, 1264 (1933); **10**, 703 (1934).

5) T. Kariyone and G. Kurono, *J. Pharm. Soc. (Japan)*, **60**, 318 (1940).

*) Pharmaceutical Department of Kanazawa University, Kanazawa, Japan.