

PHYTOCHEMICAL NOTES.

FROM THE LABORATORY OF EDWARD KREMERS.

No. 111. THE STEROLS FROM *MONARDA FISTULOSA*.

BY OLE GISVOLD.

The unsaponifiable material prepared by E. J. Ireland from the saponified fatty oil obtained from the leaves of the wild bergamot was imperfectly crystalline. The several fractions submitted were combined, dissolved in ether, alcohol added to the ethereal solution, also some charcoal. The mixture was heated to boiling for a few moments and then filtered. After filtration, the ether was evaporated off and water added to the hot solution until the precipitate produced just redissolved.

Upon recrystallization beautiful leaflets were thus obtained. They melted at 130–131° and showed no change in melting point after drying at 100° also over P₂O₅ in a vacuum.

The sterol was acetylated. The acetylated product, upon crystallization, melted at 115°. Upon recrystallization the product softened at 115° and became clear at 118°.

The absence of stigmasterol was indicated when tested for by the method of Windaus and Hauth.¹ However, reinvestigation of larger amounts, when available, may yet prove the presence of stigmasterol with a sitosterol.

The Therapy of the Cook County Hospital. Edited by BERNARD FANTUS, M.D., Chicago.—In their elaboration, these articles are submitted to the members of the attending staff of the Cook County Hospital by the director of therapeutics, Dr. Bernard Fantus. The views expressed by various members are incorporated in the final draft for publication. The series of articles will be continued from time to time in the columns of the *Journal A. M. A.*

The following prescriptions were selected from one of a series of articles in the *Journal A. M. A.* by the *Prescriber* and edited by this publication in accordance with the British Pharmacopœia.

RUBEFACIENT PIGMENT.

℞ Menthol..... 2.0 Gm.
Volatile Oil of Mustard... 2.0 ml.
Alcohol (95 per cent)..... 50.0 ml.

Mix. Apply a few drops to the affected area.
(Avoid the vicinity of the eyes.)

ANALGESIC PIGMENT.

℞ Camphor
Chloral Hydrate
Menthol, of each..... 30.0 Gm.
Alcohol (95 per cent), to
make..... 120.0 ml.

Mix. Paint over painful area.

COMBINED ANALGESICS.

Dry Extract of Hyoscyamus..... 0.15 Gm.
Acetanilid..... 1.00 Gm.
Acetylsalicylic Acid..... 5.00 Gm.

Mix and divide into 15 capsules. One every two to four hours as required. (The analgesic effects of acetanilid and acetylsalicylic acid are enhanced by this combination and the sudorific effect is arranged by the hyoscyamus.)

BENZOCAINE-CAMPHOR OIL.

℞ Benzocaine..... 2.0 Gm.
Liniment of Camphor to.. 100.0 ml.

Mix. Apply freely on gauze as a dressing for painful wounds of ulcers.

¹ *Ber.*, 39, 4381 (1906).