BIBLIOGRAPHY OF PHARMACEUTICAL RESEARCH

Compiled by A. G. DuMez, Reporter on the Progress of Pharmacy.

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APPARATUS AND MANIPULATIONS.	Gettler, A
Berry, H.	Poisoning
The pharmacy of the British Pharmacopœia,	J. A. M.
1932	Girard, A
Pharm. J., 130 (1933), 64	Internatio
Dickey, V. L.	folliculi
Relative value of slow and rapid percolation in	J. pharm Kempf, C
the preparation of tincture of rhubarb and	Treatmen
aromatic tincture of rhubarb, U. S. P.	amytal
JOUR. A. PH. A., 22 (1933), 132	J. A. M.
Dickey, V. L., and Nitardy, F. W.	Ogata, A
Effect of alcoholic strength of menstruum and	Investiga
rate of percolation in the preparation of Tinc-	male
ture of Capsicum	J. Pharm
JOUR. A. PH. A., 22 (1933), 135	Perrot, E
	Action of
PHARMACEUTICAL PREPARATIONS.	tines of
Bennekou, I.	Bull. sci.
Investigation of medicines for injection	Perrot, E
Dansk Tids. Farm., 7 (1933), 17	Effect of
Eschenbrenner, H., and Gärtner, R.	sheep a
Improvement of the method for preparing tinc-	Bull. sci.
tures	Stevensor
Pharm. Ztg., 78 (1933), 161	Acute nic
Krantz, John C., Jr.	Calif. &
Buffer capacity of tincture of digitalis	
JOUR. A. PH. A., 22 (1933), 106	BOTA
BUARA COLOCY TOYICOLOCY AND	Eschbren
PHARMACOLOGY, TOXICOLOGY AND THERAPEUTICS.	Color rea
THERAFEUTICS.	Pharm.
Bliss, A. Richard, Jr., et al.	133
Investigation of the diuretic properties of water-	Gstirner,
melon juice	Falsificat
Am. J. Pharm., 105 (1933), 53	Pharm. 2
Burn, J. H.	Hoch, J.
Biological assays of the British Pharmacopœia <i>Pharm. J.</i> , 130 (1933), 60	Notes on Am. J. F
Cotton, Alva, and Darbaker, L. K.	Kawai, K
Laxative properties of Rhamnus alnifolia	Pharmac
Jour. A. PH. A., 22 (1933), 131	liver oi
De Almeida Costa, Oswaldo	J. Pharn
Pharmacological study of cainca (Chiococa	Meijer, A
alba) a Brazilian drug	Contribu
Rev. brasil. med. pharm., 8 (1932), 124; through	remedi
Chem. Abstr., 27 (1933), 559	Pharm. V

Gettler, Alexander O., and Norris, Charles g from drinking radium water A., 100 (1933), 400 ındré onal unit for the standardization of in preparations chim., 17 (1933), 61 3. F., et al. at of strychnine poisoning with sodium A., 100 (1933), 548 ., et al. tion of the sexual hormones of the s. Soc. Japan, No. 610 (1933), 187 m., and Gaudin, O. the pyrethrins on the isolated intesf the rabbit pharmacol., 40 (1933), 7 m., et al. the pyrethrins in the treatment of and poultry for worms pharmacol., 40 (1933), 13 n, Homer M. otine poisoning West. Med., 38 (1933), 92 NY AND PHARMACOGNOSY.

mer. H. ction of ergot and its preparations Presse, Wiss.-prakt. Heft (1932), F., and Hünerbein, H. tion of coto bark Zentralh., 74 (1933), 81 Hampton cascara Pharm., 105 (1933), 64 ٢. ognostical studies on Japanese cod 1 n. Soc. Japan, No. 610 (1933), 169 4. S. C. tion to the knowledge of the folk ies of the Netherlands Wets Indies Weekbl., 70 (1933), 102, 135

Müller, Julius A.

Constituents of Viscum album (Northern misletoe)

Arch. Pharm., 270 (1932), 449

Wentzel, M.

Botany and folklore of mandragora A poth.-Ztg., 48 (1933), 154

ALKALOIDS AND GLUCOSIDES.

David, L.

- New method for the determination of morphine *Pharm. Ztg.*, 78 (1933), 163
- Forbes, G. S., et al.
- Photochemical reactions between quinine and dichromic acid. II. Kinetics of the reaction
- J. Am. Chem. Soc., 55 (1933), 588
- Henry, T. A.
- The pharmacopocial alkaloids
- Pharm. J., 130 (1933), 84
- Herndlhofer, Erich
- New method of determining caffeine nephelometrically
- Mikrochemie, 12 (1932), 227; through Chem. Abstr., 27 (1933), 808

Sanchez, Juan A.

Reactions and determination of ephedrine

Semana méd. (Buenos Aires), II (1932), 1183; through Chem. Abstr., 27 (1933), 808

- Sandrus, Harry J., and Willard, Mary L.
- Preliminary paper on the microchemical identification of caffeine
- Mikrochemie, 12 (1932), 137; through Chem. Abstr., 27 (1933), 808

Susuki, H., and Keimatsu, I.

- Alkaloids of the Chinese drug "Chin-shih-Hu"
- J. Pharm. Soc. Japan, No. 610 (1933), 183 Tonn, O.
- Production of color in quinine solution by traces of copper
- Pharm. Zentralh., 74 (1933), 53
- Valette, Guillaume
- Use of silicotungstic acid for the identification and quantitative determination of novocaine
- Bull. sci. pharmacol., 40 (1933), 28
- Wagenaar, M.
- Microchemical detection of procaine
- Mikrochemie, 12 (1932), 143; through Chem. Abstr., 27 (1933), 808

ESSENTIAL OILS.

Bennett, C. T.

- Essential oils of the British Pharmacopœia, 1932
- Pharm. J., 130 (1933), 126

Berry, Philip A., and Swanson, Thomas B.
Determination of cineol in eucalyptus oil Australasian J. Pharm., 13 (1932), 1145
Hosking, J. R.
Physical and chemical properties of some essential oils from Samoa
Perf. & Ess. Oil Rec., 24 (1933), 2

OILS, FATS AND WAXES.

Éwe, George E.

Significance of stearin content of cod liver oil JOUR. A. PH. A., 22 (1933), 109 Jermstad, A.

Chemical investigation of the fatty matter of cascara sagrada

J. pharm. chim., 17 (1933), 76

GENERAL AND PHYSICAL CHEMISTRY.

Baxter, G. P., et al.

Report of Committee on Atomic Weights of the International Union of Chemistry

- J. Am. Chem. Soc., 55 (1933), 441
- Linnel, Wilfred H.
- Pharmaceutical Chemistry and the B. P., 1932-IV
- Pharm. J., 130 (1933), 67

ANALYTICAL METHODS AND RESULTS.

Anon.

Tentative method for the determination of cascara sagrada

J. A. O. A. C., 16 (1933), 81 Anon.

anon.

Tentative method for the determination of sulphonal and trional

J. A. O. A. C., 16 (1933), 83

Anon.

Tentative microchemical methods for the determination of chinosol, benzocaine, pyridium and cinchophen

J. A. O. A. C., 16 (1933), 84

- Ballard, C. W., and Miller, Reginald
- Alcohol content of Syrup Tolu, U. S. P.
- JOUR. A. PH. A., 22 (1933), 127
- Edmunds, C. W., et al.
- Laboratory test for liver extract
- JOUR. A. PH. A., 22 (1933), 91
- Fulton, Charles C.
- Test for aspirin, salicylic acid and manganese
- Am. J. Pharm., 105 (1933), 59
- Fulton, Charles C.
- Beta naphthol test for copper
- Am. J. Pharm., 105 (1933), 62
- Hoch, J. Hampton
- Tannin spot-tests
- JOUR. A. PH. A., 22 (1933), 121

Korenman, I. M.	Comparative study of the commercial varieties
Microchemical identification of mercury salts	of mild silver-protein, U. S. P. X
and some heavy metals	JOUR. A. PH. A., 22 (1933), 112
Pharm. Zentralh., 74 (1933), 54	Linnell, W. H.
Stainier, Carl, and Leclercq, Leon	The pharmacopœial organic chemicals
Determination of iodides by the method of the	Pharm. J., 130 (1933), 106
Netherlands Pharmacopœia, V	Nottbohm, F. E., and Mayer, F.
J. pharm. Belg., 15 (1933), 73	Differentiation of lecithin preparations of ani-
Stevens, Asa N.	mal and plant origin
Modification of Smith's colorimetric method	ChemZtg., 56 (1932), 881; through Chem.
for the assay of ergot	Abstr., 27 (1933), 560
JOUR. A. PH. A., 22 (1933), 99	Trufanov, A. V.
ORGANIC CHEMICALS.	Ergosterol from ergot
	Khim. Farm. Prom. (1932), 132; through
Amrhein, Florin J.	Chem. Abstr., 27 (1933), 809

THE DETECTION OF ACETONE IN CHLOROFORM.*

BY GEORGE D. BEAL¹ AND CHESTER R. SZALKOWSKI.²

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INTRODUCTION.

The U. S. P. X in its monograph on chloroform does not include a test for acetone. It has been suggested that such a test should be included since, as much chloroform is produced from acetone, acetone may be found as an impurity in chloroform; as a result the investigation has been carried out.

Middleton and Hymas (1) employed Nessler's reagent to detect acetone in ether and found it to be satisfactory for small quantities. We have applied it to acetone in chloroform and found it to be equally satisfactory for small quantities of acetone in chloroform. (Since this article was written the British Pharmacopœia, 1932, has appeared, containing a limit test for aldehyde in chloroform with Nessler's reagent.)

Gros (2) found that acetone in dilute aqueous solutions reacts with Nessler's reagent in the cold to give a yellowish precipitate, which on analysis showed the following to be present: mercury, 61.73%; iodine, 27.14%; chlorine, 3.42%, and acetone, 3.94%. We have obtained a canary-yellow precipitate by adding Nessler's reagent to an aqueous solution of acetone and chloroform. The dried precipitate had the following composition: mercury, 72.16%; iodine, 14.85%; chlorine, 3.06%. This precipitate is soluble in an excess of acetone. A dilute aqueous solution of trichlorotertiary butyl alcohol (Chloretone), upon reaction with Nessler's reagent, produced a precipitate similar to that with acetone in chloroform. Both precipitates melted at 235° C. with decomposition, and the two, when mixed intimately, melted at the same temperature.

Kolthoff (3) has used both salicyl aldehyde and vanillin in the presence of solid potassium hydroxide as reagents for acetone. He found that salicyl aldehyde can be applied to ketones other than acetone, while vanillin was specific for acetone.

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