

BIBLIOGRAPHY OF PHARMACEUTICAL RESEARCH

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

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APPARATUS AND MANIPULATIONS.

Andrews, Marvin J.
Determination of reasonable or permissible error in dispensing
JOUR. A. PH. A., 22 (1933), 755
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Review of the new Danish Pharmacopœia
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Review of the new Danish Pharmacopœia
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Eschenbrenner, H.
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Fantus, Bernard, *et al.*
Study of vehicles for medicines
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Haddock, L. A.
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Stability of ergot preparations
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Fluidextract of thyme
Pharm. Zentralh., 74 (1933), 441
Langevin, Lillian Mary
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JOUR. A. PH. A., 22 (1933), 728
Monk, H. E.
Cod liver oil emulsion with hypophosphites
Chem. & Drug., 119 (1933), 64
Morton, C.
Decomposition of acetylsalicylic acid in aqueous solution
Quart. J. Pharm. & Pharmacol. (July 1933), 164
Nielsen, Leo
Decomposition of sodium phenylethylbarbiturate in aqueous solution
Dansk Tids. Farm., 7 (1933), 137
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Comparison of the action of various solvents on defatted cochineal
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Keeping properties of Liquor arsenicalis
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Smelt, E. M.
Keeping properties of liquid extract of ergot
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Solution of iron albuminate
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Woodard, W. A., and Cowland, A. N.

Stability of aqueous solutions of gallotannic acid

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PHARMACOLOGY, TOXICOLOGY AND THERAPEUTICS.

Baldinger, L. H., and Nieuwland, J. A.

Relation of some physical properties to bactericidal action of some α -phenylsubstituted acids

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Uses and dangers of cosmetics

Pharm. J., 137 (1933), 85

Dyer, F. J.

Estimation of parathyroid hormone

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Dysart, B. R.

Death following the ingestion of 5 grains of acetylsalicylic acid

J. A. M. A., 101 (1933), 446

Epstein, David

Paraldehyde in digitalis standardisation by the cat method

Quart. J. Pharm. & Pharmacol., 6 (1933), 169

Fromberz, K.

Evaluation on the frog of glycosides acting on the heart

Arch. expil. Path. Pharmacol. (1932), 168; through *Chem. Abstr.*, 27 (1933), 3775

Gage, J. C.

Variation in the susceptibility of mice to certain anesthetics

Quart. J. Pharm. & Pharmacol. (July 1933), 90

Gage, J. C.

Standardized preparation of digitalin for injection

Quart. J. Pharm. & Pharmacol., 6 (1933), 161

Gunn, J. W. C., and Epstein, David

Comparison of the action of sapotoxin, strophanthin and certain snake venoms on the heart

Quart. J. Pharm. & Pharmacol., 6 (1933), 182

Hemmingsen, Axel Marius

Accuracy of insulin assay on white mice. Part II

Quart. J. Pharm. & Pharmacol., 6 (1933), 187

Knoefel, P. K.

Narcotic potency in the paraldehyde series

J. Pharmacol. & Exper. Therap., 48 (1933), 488

Horne, W. H., et al.

***p*-Aminophenyl urethans as local anesthetics**

J. Am. Chem. Soc., 55 (1933), 3435

Lefébure, Ernest

Contribution to the toxicological determination of cantharidin

J. pharm. Belg., 15 (1933), 527, 543

Lozinski, E., and Holden, G. W.

Relative activity of ergotoxine and ergotamine with special reference to the assay of ergot preparations

Quart. J. Pharm. & Pharmacol. (July 1933), 67

Morrell, C. A., and Chapman, C. W.

Determination of toxicity of arsphenamine. I. Increase in toxicity on exposure to air

J. Pharmacol. & Exper. Therap., 48 (1933), 375

Morrell, C. A., and Chapman, C. W.

Determination of the toxicity of neoarsphenamine. II. Determination of characteristic curve for rats

J. Pharmacol. & Exper. Therap., 48 (1933), 391

Samaan, Karam

Pharmacological action of visnagin

Quart. J. Pharm. & Pharmacol., 6 (1933), 174

Shaw, Paul A.

Toxicity and deposition of thallium in certain game birds

J. Pharmacol. & Exper. Therap., 48 (1933), 478

Thompson, Marvin R.

Extraction and assay of crude ergot

Jour. A. Ph. A., 22 (1933), 736

Turner, B. B., and Hulpieu, H. R.

Antidotal action of sodium thiosulphate and dihydroxyacetone in cyanide poisoning

J. Pharmacol. & Exper. Therap., 48 (1933), 445

Van de Velde, Alb. J. J.

Biochemical assays

J. pharm. Belg., 15 (1933), 511

Wallace, E. W., and Van Dyke, H. B.

Cumulative poisoning by squill derivatives and ouabain

J. Pharmacol. & Exper. Therap., 48 (1933), 430

Wokes, Frank

Effect of calcium administration on the toxicity of carbon tetrachloride in mice

Quart. J. Pharm. & Pharmacol. (July 1933), 85

BOTANY AND PHARMACOGNOSY.

Chen, A. Ling, and Chen, K. K.

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Dewar, T.

Histology of the leaves of *Digitalis Thapsi*

Quart. J. Pharm. & Pharmacol. (July 1933), 115

Lewis, S. Judd, and Wombwell, J.

Spectroscopic investigation of gum acacia

Quart. J. Pharm. & Pharmacol. (July 1933), 147

Smelt, E. M.

Chemical tests for strophanthus

Quart. J. Pharm. & Pharmacol. (July 1933), 139

Strozewicz, Waclaw J.

Analysis of caraway

Wiadomosci Farm., 60 (1933), 285, 299, 315; through *Chem. Abstr.*, 27 (1933), 3779

Wallis, T. E., and Dewar, T.

Buchu leaves and other species of *Barosma*.

Comparative study of the anatomy

Quart. J. Pharm. & Pharmacol. (July 1933), 19

ALKALOIDS AND GLUCOSIDES.

Boehn, Theodor

Chemistry of morphine and the derivatives of pharmaceutical importance

Apoth.-Ztg., 48 (1933), 845, 861, 875

Bouillot, J., and Leulier, Maurice

Some camphocarbonates of alkaloids

J. pharm. chim., 18 (1933), 49

Fulton, Charles C.

Identification of cocaine and novocaine

Am. J. Pharm., 105 (1933), 326

Ghouse, M., and Katti, M. C. Tummin

Rhaponticin and anthraquinone derivatives from *Rheum emodi* Wall

J. Indian Inst. Sci., 16A, Pt. 1 (1933), 1; through *Chem. Abstr.*, 27 (1933), 3777

Jurkowski, Adam, and Poznanski, Fr.

Remarks on the methods of determination of alkaloids in the products and the raw material of Solanaceæ

Wiadomosci Farm., 60 (1933), 133; through *Chem. Abstr.*, 27 (1933), 3779

Monnet, R.

Reaction of erythroquinine, its specificity and method of carrying it out

J. pharm. chim., 18 (1933), 59

Offerhaus, C., and Baert, C. G.

Anesthetics, particularly cocaine and novocaine

Pharm. Weekbl., 70 (1933), 826

Stoll, A., and Kreis, W.

True digitalis glucosides

Münch. med. Wochschr., 80 (1933), 723; through *Chem. Abstr.*, 27 (1933), 3777

Ware, Alan H., and Smith, Victor

Precipitation of alkaloids by tannins and the use of antipyrine in the detection of tannins

Quart. J. Pharm. & Pharmacol. (July 1933), 126

ESSENTIAL OILS.

Anon.

Aniseed, fennel and star-anise oil

Parfums France, 11 (1933), 106; through *Pharm. J.*, 137 (1933), 37

Berry, Philip, and Swanson, Thomas B.

Determination of the freezing point of a mixture of pure ortho-cresol and pure cineole

Perf. & Ess. Oil Rec., 24 (1933), 224

Janicsek, Miklos

Evaluation of ethereal oils

Kísérletügyi Közlemények, 35 (1933), 233; through *Chem. Abstr.*, 27 (1933), 3777

OILS, FATS AND WAXES.

Dyer, F. J.

Relationship between antimony trichloride blue value of cod liver oils and their unsaponifiable fractions

Quart. J. Pharm. & Pharmacol. (July 1933), 2

Evers, Norman, and Smith, Wilfred

Analytical classification of fish liver oils

Quart. J. Pharm. & Pharmacol. (July 1933), 1

Lewkowitsch, Elsa

Note on the composition of cacao butter

J. Soc. Chem. Ind., 52 (1933), 236T

Schuetter, H. A., and Chang, C. Y.

Hazelnut oil

J. Am. Chem. Soc., 55 (1933), 3326

ANALYTICAL METHODS AND RESULTS.

Allport, Noel L.

New method for the determination of elemental sulphur

Quart. J. Pharm. & Pharmacol. (July 1933), 103

Bennett, C. T., and Campbell, N. R.

Determination of iron

Quart. J. Pharm. & Pharmacol. (July 1933), 108

Dietzel, R., and Saxholm, K.

Studies on the degree of purity of official drugs

Pharm. Ztg., 78 (1933), 769

Elek, A., and Hill, D. W.

Micro estimation of sulphur and phosphorus in organic compounds

J. Am. Chem. Soc., 55 (1933), 3479

Ferrey, G. J. W.

Determination of moisture in mercuric oxide

Quart. J. Pharm. & Pharmacol. (July 1933), 78

Ferrey, G. J. W.

Note on the B. P. limit test for more soluble sugars in lactose

Quart. J. Pharm. & Pharmacol. (July 1933), 83

Glass, Norman

Variation in the solubility of calcium lactate

Quart. J. Pharm. & Pharmacol. (July 1933), 194

Horkheimer, Ph.

Assay of mercuric chloride tablets*Pharm. Ztg.*, 78 (1933), 782

Korenman, I. M.

Reaction of T. Takahashi and L. Ekkert for amyl alcohol*Pharm. Zentralh.*, 74 (1933), 453

Powell, A. D.

New color reaction for bismuth*Quart. J. Pharm. & Pharmacol.* (July 1933), 136

Rosenthaler, L.

Analytical notes on the newer remedies*Apoth.-Ztg.*, 48 (1933), 793

Schoonover, I. C., and Furman, N. H.

Volumetric determination of arsenic*J. Am. Chem. Soc.*, 55 (1933), 3123

Tice, Linwood F.

Simplified method for extracting capsaicin with colorimetric method for its determination*Am. J. Pharm.*, 105 (1933), 320

ORGANIC CHEMICALS.

Butchers, W. H., *et al.***Preparation and storage of solutions of tri-bromethyl alcohol***Quart. J. Pharm. & Pharmacol.* (July 1933), 205

Harris, S. E., and Christiansen, W. G.

Therapeutic substances derived from unsymmetrical diphenyl compounds. I.**Some mercury derivatives of 2- and 4-hydroxydiphenyl***JOUR. A. PH. A.*, 22 (1933), 723

Powell, A. D., and Hall, G. F.

Determination of acriflavine and related medicinal dyes*Quart. J. Pharm. & Pharmacol.* (July 1933), 61

Seidell, A., and Smith, M. I.

Crystalline antineuritic vitamin (B₁)*J. Am. Chem. Soc.*, 55 (1933), 3380

Van Zijp, C.

Microchemistry of cholesterine*Pharm. Weekbl.*, 70 (1933), 775

DETERMINATION OF THE REASONABLE OR PERMISSIBLE MARGIN OF ERROR IN DISPENSING.

BY MARVIN J. ANDREWS.

(Continued from page 763.)

TABLE VI.—SUMMARY OF RESULTS.

Prescription Number.	Average S. D.	Number of Batches of Powders Falling within			Percentage of Batches of Powders Falling within		
		1 × S. D.	2 × S. D.	3 × S. D.	1 × S. D.	2 × S. D.	3 × S. D.
1	0.345	14	16	.	46.66	53.33	...
2	0.185	16	14	.	53.33	46.66	...
3	0.525	16	14	.	53.33	46.66	...
4	0.574	16	13	1	53.33	43.33	3.33
5	0.696	17	12	1	56.66	40.00	3.33
6	0.294	17	10	3	56.66	33.33	10.00
7	0.186	17	13	.	56.66	43.33	...
8	0.228	35	23	2	58.33	38.33	3.33
9	0.523	35	19	8	55.00	31.66	13.33
10	0.526	29	31	.	48.33	51.66	...
11	0.185	38	20	2	63.33	33.33	3.33
Totals		248	185	17	55.11	41.11	3.77

An examination of the table shows that 96.22 per cent (55.11 per cent + 41.11 per cent) of a total of 450 batches of powders filled fall within twice the standard deviation for weight. So far as the prescriptions used in these tests are concerned, therefore, this deviation might well be taken as defining the limit for reasonable or permissible error.

CAPSULES.

Capsules are prepared in much the same way as powders, hence the possibilities to err may be expected to be the same. This is demonstrated to be true by the results of the tests reported herein. The preparation of capsules, however, presents an additional opportunity to err in that the bulk material must be filled into the capsules. In some instances, a division of the