

- (58) Hensel, *Ibid.*, 3 (1914), 1118.
 (59) Mills, *So. Pharm. Jour.*, 6 (1914), 536.
 (60) Caldwell, *Drug. Circ.*, 50 (1906), 393.
 (61) Beringer, *JOUR. A. PH. A.*, 2 (1913), 1141.
 (62) Cloughy, *Drug. Circ.*, 57 (1913), 197.
 (63) Posschl, *Ibid.*, 58 (1914), 11.
 (64) Hensel, *JOUR. A. PH. A.*, 3 (1914), 1118.
 (65) Mills, *So. Pharm. Jour.*, 6 (1914), 536.
 (66) Hilton, *A. J. P.*, 83 (1911), 268.
 (67) Raubenheimer, *PROC. A. PH. A.*, 55 (1907), 150.
 (68) Boehm, *BULL. A. PH. A.*, 3 (1908), 154.
 (69) Dichl, *PROC. A. PH. A.*, 57 (1909), 1060.
 (70) Beringer, *A. J. P.*, 82 (1910), 250.
 (71) Hilton, *BULL. A. PH. A.*, 6 (1911), 152.
 (72) Hensel, *JOUR. A. PH. A.*, 3 (1914), 1118.
 (73) McNeery, *Ibid.*, 5 (1916), 611.
 (74) Hensel, *Ibid.*, 4 (1915), 1361.
 (75) Terry, *Ibid.*, 8 (1919), 183.
 (76) Raubenheimer, *BULL. A. PH. A.*, 2 (1907), 349.
 (77) Sennewald, *Ibid.*, 2 (1907), 348.
 (78) Bochm, *Ibid.*, 3 (1908), 154.
 (79) Hilton, *Ibid.*, 6 (1911), 132.
 (80) Beringer, *JOUR. A. PH. A.*, 2 (1913), 1141.
 (81) Hensel, *Ibid.*, 4 (1915), 1361.
 (82) Sayre, *Drug. Circ.*, 61 (1917), 298.
 (83) Boehm, *BULL. A. PH. A.*, 3 (1908), 154.
 (84) Posey, *PROC. A. PH. A.*, 57 (1909), 980.
 (85) Hensel, *JOUR. A. PH. A.*, 3 (1914), 1118.
 (86) Beringer, *Ibid.*, 2 (1913), 1141.
 (87) *Pharm. Jour.*, 56 (1911), 546.
 (88) Terry, *JOUR. A. PH. A.*, 8 (1919), 183.
 (89) Craig, *BULL. A. PH. A.*, 6 (1911), 607.
 (90) Hilton, *A. J. P.*, 83 (1911), 268.
 (91) LaWall, *JOUR. A. PH. A.*, 3 (1914), 1002.
 (92) Terry, *Ibid.*, 8 (1919), 183. (93) Éwe, *Ibid.*, 2 (1913), 973.
 (94) LaWall, *Ibid.*, 3 (1914), 1002.
 (95) Snapp, "Proc. Ky. Ph. A." (1918), 45.
 (96) Terry, "Proc. Ohio Ph. A." (1918), 137.
 (97) Terry, *Ibid.* (1920), 156. (98) Miller, *Bull. Ind. Bd. Health*, 24 (1921), 5.
 (99) Hilton, *A. J. P.*, 83 (1911), 268.

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ERGOT ALKALOIDS.

Ergot Alkaloids and Their Actions. A. STOLL, Meeting Deut. Pharmakol. Gesellsch. Hamburg (9/12/28); *Klin. Wochschr.*, 7 (1928), 2223, No. 46, through *Squibb Abstract Bulletin*.

In a discussion following an illustrated lecture by Barger on the development of the ergot alkaloids and their actions, Stoll stated that amorphous ergotoxin and crystalline ergotamine appear identical in pharmacological ex-

amination, but the question of chemical identity has not as yet been solved. In spite of great similarities (same absorption spectra, etc.), there are also detectable differences, such as a difference of C_8H_4 in the formula. The conversion of ergotoxin and its derivatives (ergotinine) into ergotamine and vice versa has not been effected. Further chemical and physical-chemical data on these substances are to be obtained.—E. G.