sodium acetate was added and the porphin was re-extracted into benzene (3 \times 200 ml.). The benzene solution was distilled to dryness under reduced pressure, the residue redissolved in hot benzene (50 ml.) and purified as previously described.

Anal. Caled. for C20H14N4: C, 77.5; H, 4.5; N, 18.1. Found: C, 77.5; H, 4.7; N, 18.3.

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DEPARTMENT OF CHEMICAL PATHOLOGY

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Substituted Aminobenzacridines

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The preparation of a number of substituted 7aminobenz [c]acridines as potential amoebicides has been reported by Elslager and co-workers^{1,2} and by Short and co-workers.³ The present communication deals with the preparation of a number of substituted 7-aminobenz[c]acridines and 12-aminobenz-[a]acridines for trials against Entamoeba histolytica in vitro.

The compounds were prepared by the interaction

(1) E. F. Elslager, A. M. Moore, F. W. Short, M. J. Sullivan, and F. H. Tendick, J. Am. Chem. Soc., 79, 4699 (1957).

(2) E. F. Elslager, F. W. Short, M. J. Sullivan, and F. H.

Tendick, J. Am. Chem. Soc., 80, 451 (1958).
(3) F. W. Short, E. F. Elslager, A. M. Moore, M. J.
Sullivan, and F. H. Tendick, J. Am. Chem. Soc., 80, 223 (1958).

of 7-chlorobenz[c]acridine and 12-chlorobenz[a]acridine with a slight excess of the appropriate amine in phenol at 120° for 2 hours and isolated as the salicylate as described in an earlier communication by Chatterjee.⁴ The compounds were purified by crystallization from 90% ethanol and are shown in Table I.

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(4) A. K. Chatterjee, J. Org. Chem., 24, 856 (1959).

Attempted Preparation of Benzpinacol Carbonate

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In an endeavor to synthetize benzpinacol carbonate, needed for a kinetic study, two different methods have been attempted: 1) a base-catalyzed ester-interchange between benzpinacol (I) and diethyl carbonate, and 2) the reaction of phosgene with I in presence of antipyrine, according to the method of Ludwig and Piech.¹ Both methods failed to produce the desired cyclic carbonate. Instead, the first method gave a mixture consisting of benzophenone (II), ethyl benzhydryl, and dibenzhydryl carbonates (III and IV), whereas the sec-

(1) B. J. Ludwig and E. C. Piech, J. Am. Chem. Soc., 73, 5779 (1951).

Serial No.	Base	Salt	M.p. of Salt, °C.	Carbon, %		Hydrogen, %		Nitrogen, %	
				Calcd	Found	Caled.	Found	Calcd.	Found
1	7-benzylaminobenz[c]acridine	$1.5 \mathrm{C_7H_6O_3}^b$	202	76.52	76.81	4.99	4.98	5.18	5.10
2	12-benzylaminobenz [a]acridine	$1.5 \mathrm{C_7H_6O_3}$	216	76.52	76.49	4.99	4.80	5.18	5.15
3	7-(2-phenylethyl)aminobenz[c]- acridine	$1.5 \mathrm{C_7H_6O_3}$	204	76.76	76.55	5.23	4.92	5.05	4.90
4	12-(2-phenylethyl)aminobenz[a] acridine	$-1.5 C_7 H_6 O_3$	203	76.76	76.91	5.23	4.80	5.05	5.15
5	7-(3-phenylpropyl)aminobenz- [c] acridine	$1.5 \mathrm{C_7H_6O_3}$	187	76.98	77.21	5.45	5.53	4.92	4.75
6	12-(3-phenylpropyl)aminobenz- [a]acridine	$1.5 \mathrm{C_7H_6O_3}$	194	76.98	77.15	5,45	5.55	4,92	4.70
7	7-(4-phenoxybutyl)aminobenz- [c] acridine	$C_7H_6O_3$	174	76.98	77.00	5,66	5.87	5.28	5.19
8	12-(4-phenoxybutyl)aminobenz- [a] acridine		172	76.98	76.75	5.66	5.82	5.28	5.20
9	7-p-dimethylaminoanilinobenz- [c]acridine	$1.5 C_7 H_6 O_8$	200	74.74	74.50	5.26	5.00	7.37	7.26
10	12-p-dimethylaminoanilinobenz- [a] acridine		196	74.74	74.53	5.26	5.13	7.37	7.42

TABLE Ia

^a All melting points are uncorrected. ^b C₇H₆O₃, salicylic acid.