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Observations on the nitrogen content of the succus entericus.

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The succus entericus in these experiments was obtained by means of a "Thiry" fistula in dogs. The nitrogen content and the quantity of the succus entericus secreted by the entire small intestine of each dog in twenty-four hours was estimated by multiplying the amounts collected from the fistula in a given period by two factors: first, by the figure necessary to bring the number of hours up to twenty-four, and second, by the figure required to compensate for the length of the dog's small intestine, as determined at autopsy.

Summarizing the protocols, the following average figures are obtained:

	Number of Observations.	Weight of Dog, kilos.	N Intake, gms.	N of Succus Entericus, Calculated for 24 Hours, gms.	N of Feces, gms.	N of Urine, gms.	N of Succus Entericus as Per Cent. of:		
							N Intake.	N Feces.	N Urine.
Dog 1	3	13.9	8.8	3.1	0.8[1]	8.0[1]	35	383	39
2	5	11.7	6.7	2.4	0.6[1]	5.0	34	393	47
3	15	7.0	7.4	1.5	0.7	5.6	21	225	27
4	14	7.1	4.3	1.9	0.3	3.2	43	607	59

Conclusions.—Nitrogen to the amount of about 35 per cent. of the food nitrogen of a mixed diet, is daily secreted in the succus entericus in dogs. Of this quantity, an amount equal to about 10 per cent. of the food nitrogen is excreted in the feces and an amount equal to about 25 per cent. of the food nitrogen is reabsorbed. The amount of reabsorbed nitrogen-containing material is considerably larger if the bile and pancreatic secretion are included.

The metabolic significance of this reabsorption can only be surmised; that it is probably of great importance is indicated by the fact that in the experiments presented, so large an amount of nitrogen, *i. e.*, equal to approximately 25 per cent. of the nitrogenous part of the food, is concerned.

[1] The value is estimated; was not determined.