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## Glucuronolactone

## REPORT AS A GROWTH FACTOR

GLUCURONOLACTONE, when fed to animals, prompts faster growth. Studies made with guinea pigs by Miller et al.<sup>1</sup>, with chicks by Almquist et al.<sup>2</sup> and Reid<sup>3</sup>, and with rats by Delchmann et al.<sup>4</sup>, show that glucuronolactone increases rate of growth under controlled conditions.

Glucuronolactone, added to diets deficient in pantothenic acid, can also alleviate the manifestations of a pantothenic acid deficiency in rats, as reported by Hundley and Ing<sup>5</sup>.

Glucuronolactone is now available commercially for your study and use. A booklet describing the product will be mailed at your request.

1. Miller, C. O., A. E. Siehrs, and F. G. Braza. Glucuronic Acid as a Growth Factor in Guinea Pigs. *Proc. Soc. Expt. Biol. & Med.*, 30, 636-38, 1932-33.
2. Almquist, H. J., E. L. R. Stokstad, E. Mecchi, and P. D. V. Manning, Identification of the Rice Factor. The Carbohydrate Component. *J. Biol. Chem.* 134, 465-1940.
3. Reid, M. E., Ascorbic and Glucuronic Acids as Growth Factors in Chicks. *Fed. Proc.*, 9, 368, 1950.
4. Deichmann, W. B., J. J. Clemmer, and C. Downing, Glucuronic Acid Lactone, a Growth Factor in Rats. *Fed. Proc.* 11, 1, March 1952.
5. Hundley, J. M., and R. B. Ing, Prevention of Pantothenic Acid Deficiency with Glucuronolactone and other Compounds Related to Ascorbic Acid. *Fed. Proc.* 12, 417-18, 1953.

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