

## 259 (2219)

The determination of galactose in the presence of glucose.

By K. F. CORI, G. W. PUCHER, G. T. CORI.

[*From the State Institute for the Study of Malignant Disease, Buffalo, N. Y.*]

Folin and Wu's method for blood-sugar has been adapted to the determination of galactose glucose mixtures. The method is based on the fact that copper solutions of different alkalinities give different reduction values for galactose, but the same for glucose. It was also found that Bertrand's as well as the Myer-Benedict method give the same reduction values for glucose and galactose. The use of the latter methods in combination with that of Folin and Wu is unsatisfactory due to errors that may be introduced by the discrepancies for glucose values obtained on the same blood.

## 260 (2220)

Energy metabolism of premature infants.

By M. ELIZABETH MARSH (by invitation).

[*From the Physiological Laboratory of the University of Rochester, and the Obstetrical Division of the Highland Hospital, Rochester, N. Y.*]

Energy metabolism studies have been made in 82 periods of observation upon 21 prematurely born infants including those previously reported.<sup>1</sup> Both the oxygen and carbon dioxide, and thus the R. Q., were determined for each separate period and heat calculated from the oxygen consumption. Temperature within chamber was usually kept between 24° C. and 28° C. Infant was fed (amount of feeding determined by weighing before and after), placed in the chamber and a preliminary period run to allow a lapse of 30 minutes between time of feeding and the beginning of the first period. An average minimal heat production per sq. m. per hour (Lissauer formula) of 25.0

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<sup>1</sup> Murlin and Marsh, *Proc. Soc. Exp. Biol. and Med.*, 1922, xix, 431.