

The same amount of indicator is added to each. The percentage dissociation is determined by the percentage color. The pH is read from the following table:

Percentage dissociation	2	3	4	5	6	7	8	9	10
pH	1	1.2	1.3	1.4	1.5	1.6	1.65	1.7	1.74
Percentage dissociation	14	20	24	29	34	39	44	49	50
pH	1.9	2.1	2.2	2.3	2.4	2.5	2.6	2.7	
Percentage dissociation	56	61	66	71	76	80	91	99	
pH	2.8	2.9	3.	3.1	3.2	3.3	3.7	4.7	
Percentage dissociation	56	61	66	71	76	80	91	99	

(The conductance ratio of HCl and the activity of the hydrogen ions is not exactly the same.)

## 174 (2406)

### The effect of secretin on blood forming tissue.

By JOSEPH T. KING (by invitation).

[*From the Laboratory of Physiological Chemistry, University of Minnesota, Minneapolis, Minn.*]

It has been claimed by some<sup>1</sup> that injections of secretin stimulated the blood forming tissue. After injections of an acid extract of intestinal mucous membrane (secretin) there is a sharp rise in the blood count. The time required for the rise and return to normal is about three hours.

Using stained smears and supravital staining (brilliant cresyl blue) as criteria of new cell formation, it is found that there is no increase in the percentage of reticulocytes and no evidence of unusual marrow activity in the stained smears. Therefore, the rise in count must be due to an escape of plasma and not to increased cell formation.

---

<sup>1</sup> Downs and Eddy, *Am. J. Physiol.*, 1918, xlvi, 209.