

## **Graph referenced as "H<sup>+</sup> - ion titration curve of serum albumin (Tanford)"**

### **Contributors**

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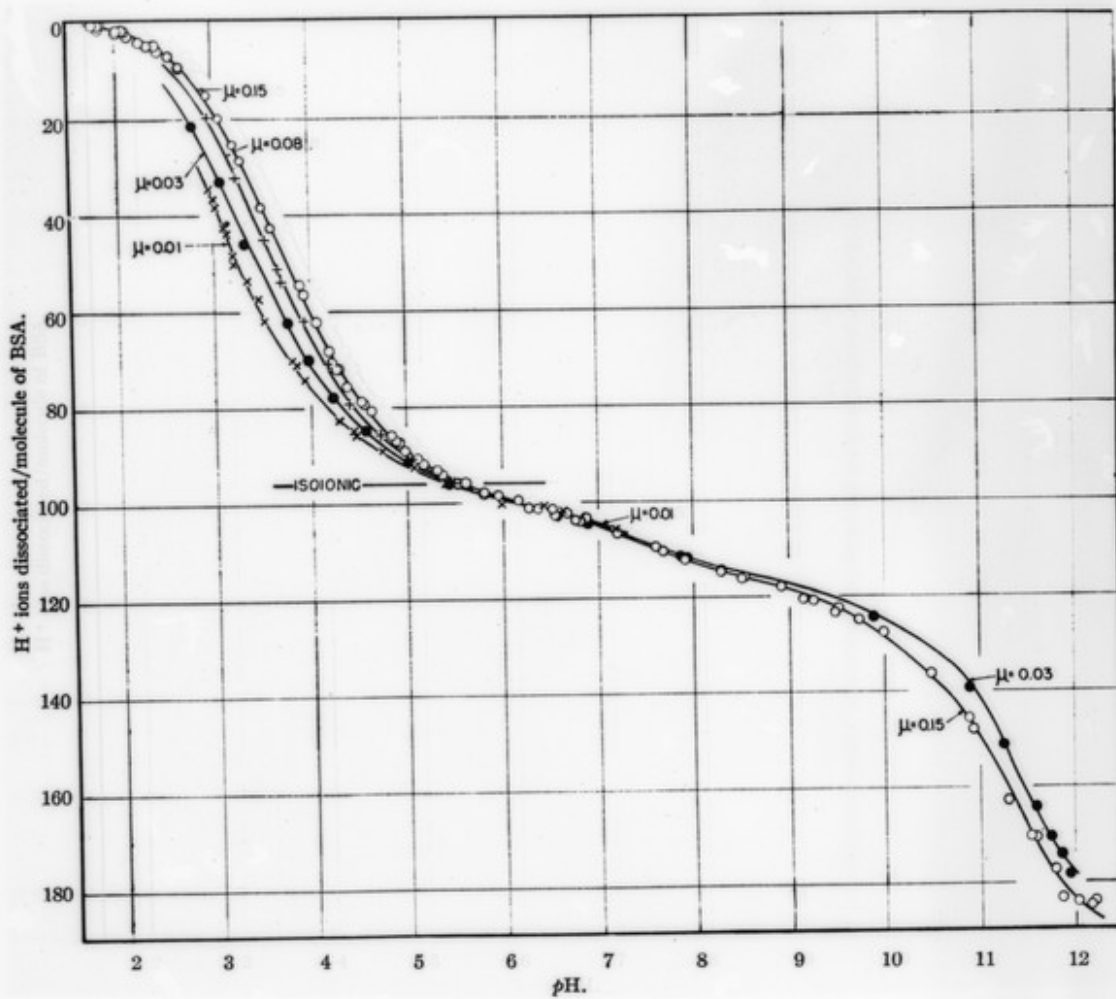
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strength 0.15) demonstrated the reversibility of the titration curve. Solutions were made up with sufficient base to bring the pH to 2.5, 10.5 or 12. After standing about 10 minutes, base or acid was added to return the final pH closer to (and in two instances beyond) the isoionic point. The value of  $r$  for the final solution was calculated from the net acid added and the final pH. The points fall

That the titration of the  $\alpha$ -amino groups of BSA is reversible up to pH 12 was shown in a previous paper.<sup>10</sup>

**Heats of Ionization.**—A titration curve was also obtained at 5°. It was confined to ionic strength 0.15, and to the range of pH 4.5 to 10. From this curve the apparent heat of ionization,  $\Delta H =$   $r \Delta H_{\text{ion}}$  at given values of  $r$ , was calculated. These data is shown in Fig. 3.