

## 8.1

$$V_{ES} = k_1 \times [E] \times [S] = \frac{d_{ES}}{d_t}$$

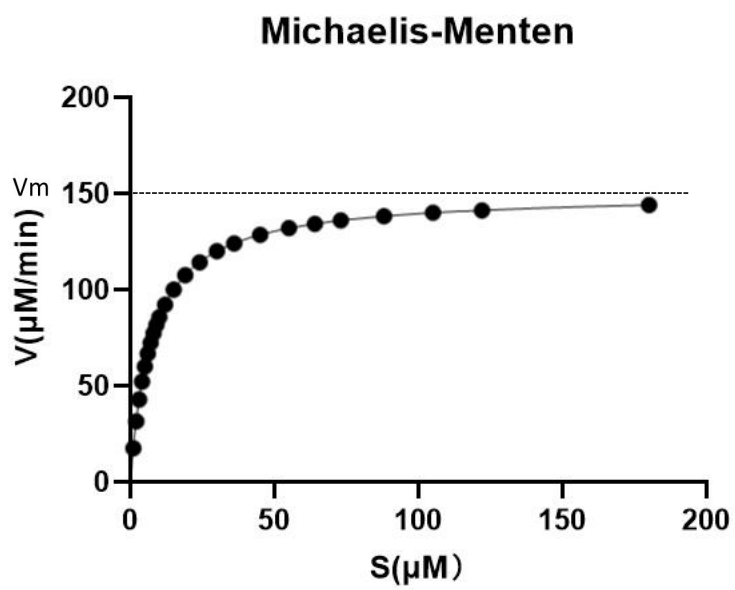
$$V_p = k_3 \times [ES] = \frac{d_p}{d_t}$$

$$V_E = (k_2 + k_3) \times [ES] = \frac{d_E}{d_t}$$

$$V_S = k_1 \times [ES] = \frac{d_S}{d_t}$$

## 8.2

## 8.3



$$V_m = 150 \mu\text{M}/\text{min}$$