

FORMULA SHEET

$$1) C_p = C_p^0 \cdot e^{-k_{el} \cdot t}$$

$$2) C_p = \frac{Dose}{V} \cdot e^{-k_{el} \cdot t}$$

$$3) C_p = \frac{K_0}{k_{el} \cdot V} \cdot [1 - e^{-k_{el} \cdot t}]$$

$$4) C_{pss} = \frac{K_0}{k_{el} \cdot V}$$

$$5) C_p = \frac{K_0}{k_{el} \cdot V} [1 - e^{-k_{el} \cdot T}] \cdot e^{-k_{el} (t - T)}$$

$$6) C_p = \frac{F \cdot Dose \cdot K_a}{V (K_a - k_{el})} [e^{-k_{el} \cdot t} - e^{-K_a \cdot t}]$$

$$7) C_{p_i}^{\delta} = C_{p_i}^0 \cdot e^{-k_{el} \cdot \delta}$$

$$8) R = e^{-k_{el} \cdot \delta}$$

$$9) C_{p_i}^0 = \frac{Dose}{V}$$

$$10) C_{p_n}^0 = \frac{Dose}{V} \left[\frac{1 - R^n}{1 - R} \right]$$

$$11) C_{p_n}^{\delta} = \frac{Dose}{V} \left[\frac{1 - R^n}{1 - R} \right] R$$

$$12) C_{p_n}^+ = C_{p_n}^0 \cdot e^{-k_{el} \cdot t}$$

$$13) C_{pmax} = \frac{Maintenance\ Dose}{V(1-R)}$$

$$14) C_{pmin} = \frac{Dose \cdot R}{V(1-R)}$$

$$15) \frac{Loading\ Dose}{Dose} = \frac{Maintenance\ Dose}{1-R}$$