

Appendix E

Notation and Symbol Reference

Symbol	Meaning
S, T	Standard and test preparations
d_S, d_T	Doses of standard and test preparations
ρ	Relative potency, $\rho = d_S/d_T$
$R, \hat{\rho}$	Sample estimate of relative potency
x	Dosage metameter (e.g. $\log(\text{dose})$ or $(\text{dose})^\lambda$)
α, β	Intercept and slope of a dose–response regression
σ^2, s^2	Population and sample (estimated) error variance
v_{11}, v_{22}, v_{12}	Variance/covariance coefficients such that $\text{Var}(a) = v_{11}s^2$, etc.
g	Fieller’s-theorem diagnostic quantity, $g = t_0^2 s^2 v_{22} / b^2$
t_0	Two-sided critical value of Student’s t (or standard normal, for large-sample GLM inference)
Ψ_p, Ψ_1, Ψ'_1	Preparation, combined-regression, and parallelism contrasts (parallel-line assay)

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