Substance	Tetanus vaccine (adsorbed)
Method	Test in guinea-pigs

Example to illustrate how optimisation by the method of minimum chisquare can be performed with CombiStats. Note that the recommended method of the European Pharmacopoeia is optimisation by Maximum Likelihood: w=n/(m*(1-m)) which is the default method if the options wizard is used.



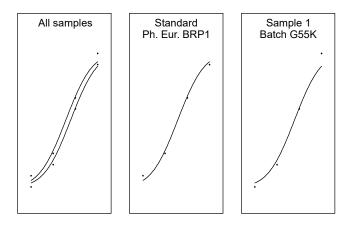
		_			
Standard			Sample 1		
ld.	Ph. Eur. BRP1		ld.	Batch G55K	
Ass. pot.	250 IU/amp		Ass. pot.	? IU/mL	
Recons.	1 amp / 2 mL		Convers.	1 mL / 1000 µL	
Pre-dil. 2	2 mL / 32 mL		Pre-dil. 2	800 µL / 49.8 mL	
Doses	(1)		Doses	(1)	
1/1	11/12		1/1	12/12	
1/2	8/12		1/2	7/12	
1/4	3/12		1/4	2/12	
1/8	1/12		1/8	0/12	

Model: r/n=(phi(x)) where x=c.+b*ln(dose) Design: Completely randomised Weight function: w=n*((1-y)*m+y*(1-m))/(m*(1-m))^2 Theoretical variance: 1

Common slope(factor): b = 1.54266 (1.23247 to 1.85285) Correlation | r |: 0.976963 (Weighted)

Source of variation	Degrees of freedom	Sum of squares	Mean square	Chi-square	Probability
Preparations	1	0.0645780	0.0645780	0.0645780	0.799
Regression	1	66.9162	66.9162	66.9162	0.000 (***)
Non-parallelism	1	2.33155	2.33155	2.33155	0.127
Non-linearity	4	0.864549	0.216137	0.864549	0.930
Standard	2	0.456516	0.228258	0.456516	0.796
Sample 1	2	0.408033	0.204016	0.408033	0.815
Treatments	7	70.1769	10.0253	70.1769	0.000 (***)
Theoretical variance			1.00000		
Total	7	70.1769	10.0253		

Sample 1						
ld.	Batch G55K					
(IU/mL)	Lower limit	Estimate	Upper limit			
Potency	306.973	418.241	567.166			
Rel. to Ass.	?	?	?			
Rel. to Est.	73.4%	100.0%	135.6%			



Executed by:

Calculated by:

Approved by: