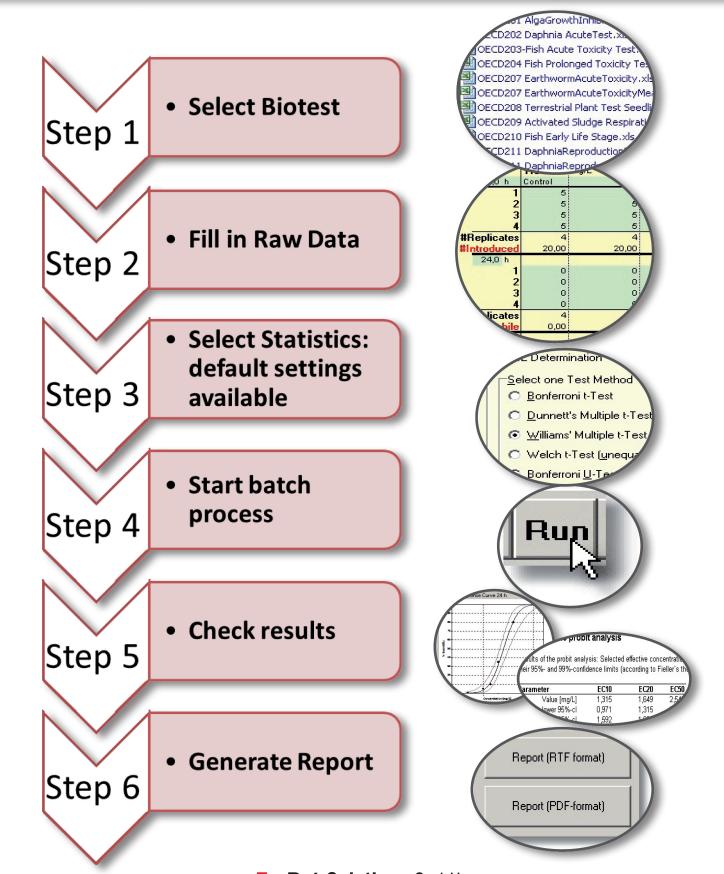


Your Guide to Biotest Statistics





ToxRat saves time:

All statistical evaluations according to guideline as a 'batch order' at the press of one button ("RUN").



Calculation of validity criteria and check for validity according to guideline.

or the test

o be valid, maximum control mortality in females must not exceed 20,0% and mean offspring number at day 21 must be at least 60,0.

eent test mortality was 0,0% and mean offspring number was 105,9; so the test is valid

Dose-Response-Analysis: Up to 6 effect concentrations user definable. Output of ECx including 95%-Confidence Interval.

oose the x of ELx included in the results tables (enter 50 with EC50):

1. 10 2. 20 3. 50
4. 5. 6.

rocedure

NOEC-Determination includes
Minimal Detectable
Difference (%MDD).

nents with "Control" by the t test procedure after Williams. Significance open one-sided smaller. Mean arithmetic mean in sample size is standard deviation.									
ikelihood mean; MDD: minimum detectable difference to Control (in percent of Control); t: t: t*: critical t for Ho: u1 = u2 = = uk; the differences are significant in case t > t*									
residual variance of an ANOVA was applied; df = N - k; N: sum of treatment replicates n(i); k: number									
treatmen			арриоа, а		\$			-	
Freatm. [r	ng/L]	Mean	S	df	LhM	MDD \	t	t*	Sign.
	Control	1,6	0,15						
1	0,250	1,6	0,15	24	1,6	-11,6	0,00	-1,71	-
	0,500	1,6	0,15	24	1,6	-12,1	0,00	-1,79	-
	0,700	1,6	0,15	24	1.6	-12,3	0.00	-1,82	- /
	1,000	1.4	0,15	24	1.4	-12,4	-1,61	-1,83	- //
	1,400	1,2	0.15	24	1.2	-12,4	-3,27	-1,84	
	2.000	0.8	0.15	24	0.8	-12.5	-6.91	-1,84	
	1,000	0,0	0,15	24	0.0	-12,5	-14,77	-1,85	
ested by the program.									

ToxRat Solutions provides software, service and support for statistical evaluation of biotests in ecotoxicology. ToxRat comes as a validated, GLP compliant software for the practitioner who wants to perform statistical analysis of biotests according to international guidelines (DIN EN ISO, OECD). ToxRat acts as an interface between ecotoxicology and statistics.

ToxRat Solutions GmbH