

ToxRat® comes with a comprehensive package of statistical methods

Statistical testing

Variance analysis, Analysis of Variance plus Trend, Pretests on normal distribution (R/S, Kolmogorov-Smirnov, Shapiro Wilks); Pretests on homogeneity of variance (Cochran, Bartlett, Levene, Tarone test for extrabinomial variance); Tests for monotonicity

Pairwise (two-sample) comparisons

Student-t-test, Welch-t-test, Mann-Whitney-U-test, Median-test, Fisher Exact Binomial test, Chi2 Fourfold Table test

Multiple Comparisons, NOEC calculation

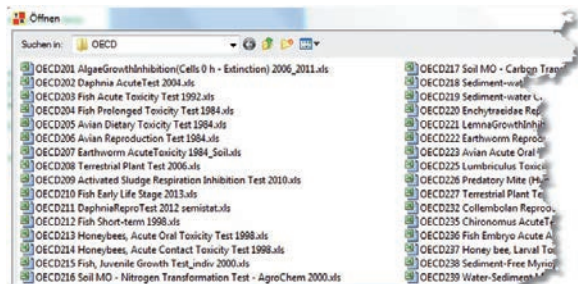
Williams test, Dunnett test, t-test, Welch-t-test, Jonckheere Terpstra test, Median test, Wilcoxon-Mann-Withney-U-test, (Rao Scott-) Cochran Armitage test, Chi² - and Fisher Exact test; Bonferroni-correction

Tests for outliers (Dixon / Grubbs test, Hampel test)

Point Estimation (ECx):

up to 6 user definable effect levels, 95 % confidence limits
Linear regression (Probit, Logit, Weibull; Abbott Correction);
Non-linear regression (2, 3 and 4 parameters, Normal sigmoid, Logistic, Weibull; Weighting, Levenberg-Marquardt, Downhill-Simplex); Interpolation methods (Trimmed Spearman Kärber, Moving Averages, Binomial estimation)

Implemented biotests for automatical complete evaluation (extract):



Statistical Evaluation of Biotests
Software – Seminars – Support

www.toxrat.com

ToxRat® Solutions GmbH

Find more information and get free demos at
>> www.toxrat.com

please contact:

Dr. Monika Ratte (Dipl.-Biol.)
ToxRat Solutions GmbH

Naheweg 15
D-52477 Alsdorf

phone +49 2404 676767
fax +49 2404 82669

monika.ratte@toxrat.com

Significantly different

Taylor made Software

www.toxrat.com



TOX Rat®

Statistics in Ecotoxicology

ToxRat Solutions GmbH
Toxicity Response Analysis and Testing

TOX Rat®

Statistics in Ecotoxicology

ToxRat Solutions GmbH
Toxicity Response Analysis and Testing

ToxRat® knows
how to evaluate your biotest

ToxRat® is more
than just a software program

ToxRat® saves time
with routine evaluation of biotests

? Do you work in the field of ecotoxicology and evaluate biotests?

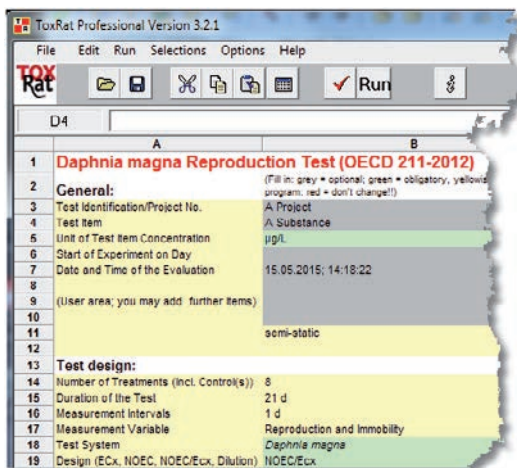
Do you need to register, evaluate or authorise substances (REACH)?

Are you looking for validated and user friendly statistics software that takes into account the requirements of international guidelines (DIN EN ISO/OECD) as well as GLP?

➔ ToxRat® – validated, taylor made, userfriendly.

ToxRat® comes as a validated, GLP compliant software, especially designed for the practitioner who wants to perform statistical analysis of biotests according to international guidelines.

ToxRat® – from biologists for biologists.



? What makes ToxRat® different to other statistical program packages?

➔ Biotest specific evaluation

ToxRat® knows the corresponding guideline of your biotest – i.e. it offers biotest specific input sheets and the correct terms of measured variables, it checks your data set for validity, calculates the biotest specific endpoints and runs through the complete sequence of statistical evaluation automatically.

➔ Expert aspect

ToxRat® analyses your data and automatically uses correct default settings for statistical evaluation. So it enables statistical evaluation of biotests even for not-statisticians.

➔ Integrated report generation

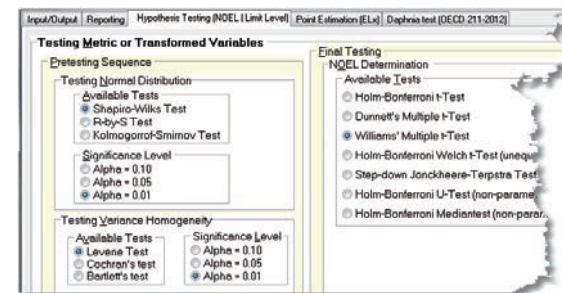
➔ Validation/GLP conformity

➔ Service and statistical consulting

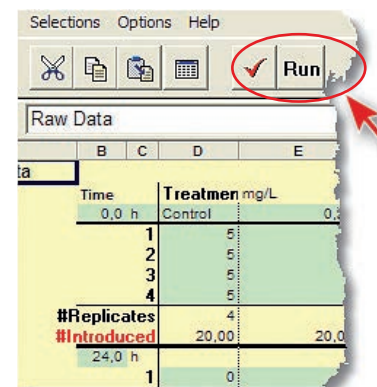
➔ Seminars and training



Default settings available. Depending on the results of pretesting a suitable procedure will be suggested which will lead to the correct results in each case. Alternatively, you may perform manual settings.



All statistical evaluations as a “batch order” at the press of a button:



TOX
Rat®

www.toxrat.com