



*QUALITY & STATISTICS!



* QuoData Service About Us

QuoData has been providing statistical consulting services, assisting with all aspects of experimental design, evaluation, and interpretation of clinical research and epidemiological studies. We can look back on over 20 years of experience in quality and statistics. As the heart of QuoData is advanced statistical methods, we go above and beyond the usual industry standards. This enables us to not only lay emphasis on validating the data and methods but also to provide accurate, data-driven conclusions with high reliability.

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Challenge
us! NOW

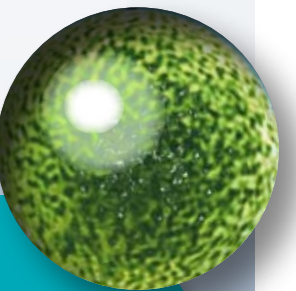


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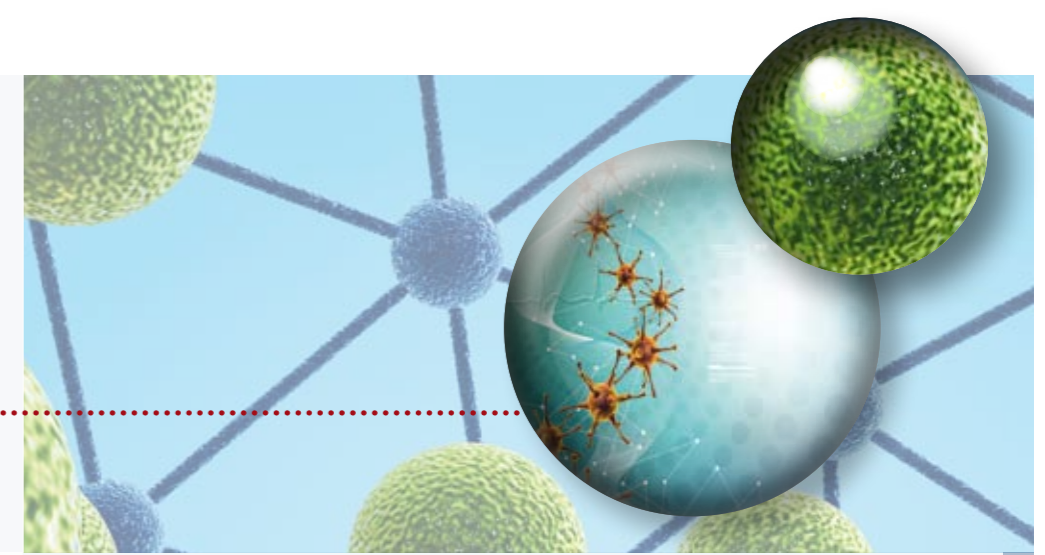


* QuoData Service Clinical Laboratory Tests Evaluation of analytical and preanalytical performance

Get in
touch
with us!



Accurate, Reliable, Comprehensive: Evaluation of the analytical and preanalytical performance of clinical laboratory tests



Analytical and preanalytical performance evaluation

Before the clinical utility of a medical laboratory test can be evaluated, it is first necessary to evaluate the analytical and preanalytical performance and characterize the test with regard to trueness, precision, sensitivity, and selectivity. When the stakes are high, and there is a need for superior reliability in the data generated by measurements in the laboratory, QuoData helps you to regain confidence in your methods.

Target audience

- medical laboratories and clinical research laboratories
- companies that develop laboratory tests/assays (e.g., *in vitro* diagnostics)

We provide comprehensive services for evaluation of the analytical and preanalytical performance of clinical laboratory tests.

Analytical and preanalytical performance is evaluated according to CLSI guidelines (Clinical and Laboratory Standards Institute) and modern experimental designs.

Due to our considerable experience and our role in international standardization, QuoData can offer valuable guidance regarding experimental design, the statistical model for the estimation of performance characteristics, and the application of assessment criteria. In particular, the use of highly efficient designs can considerably reduce the workload.

Our services include:

- Design and statistical evaluation of studies for evaluation of preanalytic conditions on test results.
- Design of method validation studies for laboratory tests. The design takes into account typical routine conditions in the lab and matrix-effects of the analyzed samples.
- Statistical evaluation of results including calculation of method performance parameters such as
 - Trueness
 - Precision: intra- and inter-assay
 - Limit of detection (LoD)
 - Limit of quantification (LoQ)
 - Measurement range (e.g. linear range)
 - Specificity / selectivity
 - Robustness
- Interpretation of results and conclusions
- Reporting

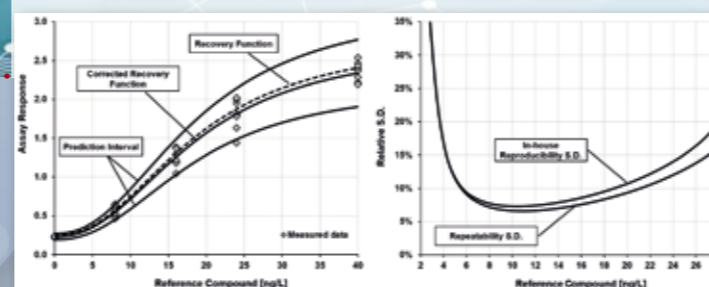
Get comprehensive preanalytic evaluation of laboratory tests:

- thorough evaluation of all steps of the pre-analytical process using factorial experimental designs
- including procedures for collection, handling, processing before analysis and storage conditions of samples (specimen of blood or body fluids) as well as physiological variables (e.g. lifestyle, age or gender) and other endogenous variables (e.g. drugs) if available and applicable

Get reliable and detailed methodical evaluation of laboratory tests:

- usage of real samples analyzed under real working conditions
- comprehensive validation protocol
- application-specific performance profile

Recovery functions with 90% prediction intervals (left) and precision profile (right).



For more information visit us at

www.quodata.de/en