

Privacy Policy:

All information about participants and results are saved in our own digital records. Any part of this report is never shared with other participants or 3. part share holders with participant name. Representation of Lab ID codes are just known by Labsert.

Objections:

Participants can appeal the entire test program or the test results. The objection period is 3 working days following the publication of the report. Objections can be made by e-mail or postal mail.

Compatibility:

This report was published to show the results have Z' score of < 1, Z'score of ≥ 1 and < 2 and Z'score of > 2 according to ISO 17043 scopes. Within the scope of this comparison test, statistical calculations, homogeneity and stability tests were applied and the results were presented in this report In accordance with ISO 13528. Assigned value is calculated from overall median of the total results and standard deviation (S.D) is calculated as overall median standard deviation according to participant number (p<4).

Assigned Value:

First, the Grubbs outlier test is applied to participant results. For the final results, the median value calculated over the presented results is considered as assigned value.

Standard Deviation of Test Program:

First, the Grubbs outlier test is applied to participant results. For the final results, the median standard deviation calculated over the presented results is considered as standard deviation of the test program.

Uncertainty of Assigned Value:

The standard uncertainties of assigned values determined as described in Article 5 are obtained by calculating the standard error of the participants' means ($u = s/\text{SQRT}(n)$) for each parameter.

Z' Scores:

If the number of participants in the comparison tests organized by Labsert "Z-Test" is <4, the Z'-score calculation is used for the performance evaluations of the participants. The Z'-Score calculation, whose formula is given below, can be also used when the assigned value uncertainty cannot be neglected. The meaning of neglection is given belo with the formula.

$$U_x \leq 0,3 * \sigma$$

If the formula given above can be matched for U_x value and the number of participants is more than 6, then Z score can be considered with the formula below.

$$Z = (x - x')/\sigma$$

As we described above, Z' score calculation is used for the laboratory comparison tests that we provide with the number of participants <4 instead of Z score.

$$Z' = (x - x')/\sqrt{\sigma^2 - u_x^2}$$

x: Participant Result σ : Standard Deviation of Test

x': Assigned Value U: Uncertainty of Assigned Value

Reports

As a result of the comparison test, a single final report is prepared for all participants separately for each parameter. This report is the final report. The calculations are done using an Excel spreadsheet or dedicated software.