

For Research Use Only. Not for use in diagnostic procedures.

Quick protocol for the MercoDia Insulin ELISA (10-1113-01)

When time is crucial for the study, eg in islet transplantations, the Quick Assay Protocol provides a fast and easy method for the quantitative determination of insulin. The incubation time of MercoDia Insulin ELISA (10-1113-01) can be shortened to a total time of 15 + 15 minutes with retained assay specificity and sensitivity.

Scope of the note

This Technical Note describes the steps needed for the quick protocol as well as data from the sample comparison study that showed excellent correlation between protocols.

Please read the original Directions for Use for the MercoDia Insulin ELISA (10-1113-01) for more details about the assay procedure before performing the assay. Observe that this protocol is for research use only and is not validated for CE/IVD use

Protocol comparison study

A set of six samples were run with the quick assay protocol and the results were compared to the insulin levels obtained with the original procedure (Figure 1). One run with each protocol was performed and the results showed excellent correlation.

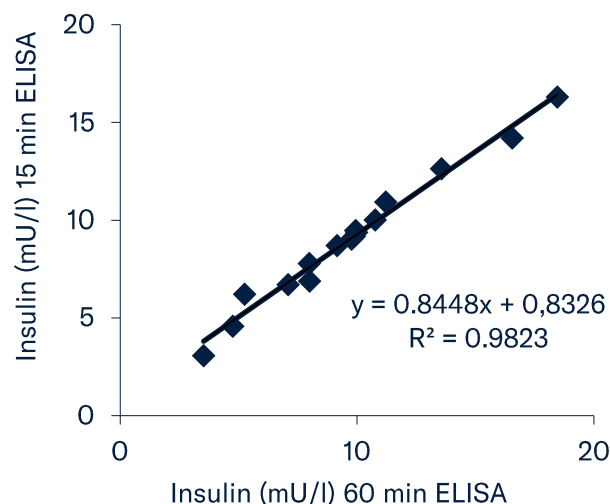


Figure 1. Comparison of insulin levels quantified with the quick and the original assay protocol in MercoDia Insulin ELISA (10-1113-01).

Summary protocol sheet

Add Calibrators, Controls and samples	25 μ L
Add enzyme conjugate 1X solution to all wells	100 μ L
Incubate	15 minutes at 18-25°C on a plate shaker (700-900 rpm)
Wash plate with wash buffer 1X solution	6 times*
Add Substrate TMB	200 μ L
Incubate	15 minutes at 18-25°C on the bench
Add Stop Solution	50 μ L Shake for 5 seconds to ensure mixing
Measure A450	Evaluate results

* Wash 6 times with 700 μ L wash buffer 1X solution per well, using an automatic plate washer with an overflow wash function. After the final wash, invert and tap the plate firmly against absorbent paper. Do not include a soak step in the washing procedure. For manual washing, see Technical Note No: 34-0106 Instruction for manual washing procedure for microplates (available online).