

FT4 II CalSet

cobas®

REF 06437290 190

4 x 1.0 mL

English

Intended use

FT4 II CalSet is used for calibrating the quantitative Elecsys FT4 II assay on the Elecsys and **cobas e** immunoassay analyzers.

Summary

FT4 II CalSet is a ready-for-use buffer/protein matrix with added L-thyroxine in two concentration ranges.

The CalSet can be used with all reagent lots.

Reagents - working solutions

- FT4 II Cal1: 2 bottles, each containing 1.0 mL of calibrator 1
 - FT4 II Cal2: 2 bottles, each containing 1.0 mL of calibrator 2
- L-thyroxine in two concentration ranges (approximately 10 pmol/L or 0.78 ng/dL and approximately 45 pmol/L or 3.5 ng/dL) in buffer/protein (bovine serum albumin) matrix.

cobas e 801 analyzer: The exact lot-specific calibrator values are encoded in the electronic barcode and available via the **cobas** link.

All other analyzers: The exact lot-specific calibrator values are encoded in the barcode as well as printed on the enclosed (or electronically available) calibrator barcode sheet.

Calibrator values

Traceability: The Elecsys FT4 II assay has been standardized against the Elecsys FT4 method. The Elecsys FT4 assay is traceable to the Enzymun-Test which was standardized using equilibrium dialysis.^{1,2}

Precautions and warnings

For in vitro diagnostic use.

Exercise the normal precautions required for handling all laboratory reagents.

Disposal of all waste material should be in accordance with local guidelines. Safety data sheet available for professional user on request.

Avoid foam formation in all reagents and sample types (specimens, calibrators and controls).

Handling

The calibrators are supplied ready-for-use in bottles compatible with the system.

cobas e 411 analyzer: The calibrators should only be left on the analyzer during calibration at 20-25 °C. After use, close the bottles as soon as possible and store upright at 2-8 °C.

Due to possible evaporation effects, not more than 5 calibration procedures per bottle set should be performed.

MODULAR ANALYTICS E170, **cobas e** 601, **cobas e** 602 and **cobas e** 801 analyzers: Unless the entire volume is necessary for calibration on the analyzers, transfer aliquots of the ready-for-use calibrators into empty snap-cap bottles (CalSet Vials). Attach the supplied labels to these additional bottles. Store the aliquots at 2-8 °C for later use.

Perform **only one** calibration procedure per aliquot.

Please note: Both the vial labels, and the additional labels (if available) contain 2 different barcodes. The barcode between the yellow markers is for **cobas** 8000 systems only. If using a **cobas** 8000 system, please turn the vial cap 180° into the correct position so the barcode can be read by the system. Place the vial on the instrument as usual.

Storage and stability

Store at 2-8 °C.

Stability:	
unopened at 2-8 °C	up to the stated expiration date
after opening/in aliquots at 2-8 °C	12 weeks
on cobas e 411 analyzer at 20-25 °C	up to 5 hours
on MODULAR ANALYTICS E170, cobas e 601, cobas e 602 and cobas e 801 analyzers at 20-25 °C	use only once

Store calibrators **upright** in order to prevent the calibrator solution from adhering to the snap-cap.

Materials provided

- FT4 II CalSet, barcode card, calibrator barcode sheet, 2 x 6 bottle labels

Materials required (but not provided)

- REF 11776576322, CalSet Vials, 2 x 56 empty snap-cap bottles
- MODULAR ANALYTICS E170 or **cobas e** immunoassay analyzers and Elecsys FT4 II assay reagents

See the assay Method Sheet and the operator's manual for additionally required materials.

Assay

Place the bottles in the sample zone.

Read in all the information necessary for calibrating the assay.

Ensure the calibrators are at 20-25 °C prior to measurement.

References

- Ekins RP. Measurement of free hormones in blood. *Endocr Rev* 1990;11:5.
- Ekins RP, Ellis SM. The radioimmunoassay of free thyroid hormones in serum. In: Robbins J, Braverman LE, eds. *Thyroid research, Proceedings of the Seventh International Thyroid Conference*, Boston. Amsterdam, Excerpta Medica 1975:597.

For further information, please refer to the appropriate operator's manual for the analyzer concerned, the respective application sheets, the product information and the Method Sheets of all necessary components (if available in your country).

A point (period/stop) is always used in this Method Sheet as the decimal separator to mark the border between the integral and the fractional parts of a decimal numeral. Separators for thousands are not used.

Symbols

Roche Diagnostics uses the following symbols and signs in addition to those listed in the ISO 15223-1 standard:

CONTENT	Contents of kit
SYSTEM	Analyzers/Instruments on which reagents can be used
REAGENT	Reagent
CALIBRATOR	Calibrator
→	Volume after reconstitution or mixing
GTIN	Global Trade Item Number

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Roche Diagnostics GmbH, Sandhofer Strasse 116, D-68305 Mannheim
www.roche.com

