

TT3 Test Kit User Manual

(Dry Fluorescence Immunoassay)

[PRODUCTNAME]

TT3 Test Kit (Dry Fluorescence Immunoassay)

[PACKAGE SPECIFICATION]

1 test/kit

5 tests/kit

25 tests/kit

50 tests/kit

100 tests/kit

[INTENDED USE]

TT3 Test Kit (Dry Fluorescence Immunoassay) is intended for in-vitro quantitative measurement of total TT3 (Triiodothyronine) in human serum and plasma under normal physiological conditions, total TT3 only accounts for about 5% of thyroid hormones. Although the concentration is much lower than thyroxine, total TT3 exhibits stronger metabolic activity, faster update speed and wider distribution. It can be used to diagnose hypothyroidism and hyperthyroidism.

[TEST PRINCIPLE]

TT3 Test Kit (Dry Fluorescence Immunoassay) uses the principle of antigen-antibodyreaction. The testing sample will migrate forward due to capillary action, then the TT3 of the sample willcombine with antibodywhich is attached to fluorescence microspheres. This marked complex is attached to the detection area of immobilized antibodyand the other fluorescence microspheres are attached to thecontrol area. When the test strip is inserted into the analyzer, the analyzer automatically scans two ribbons and detected the fluorescence intensity of the composite emission from the testing area and thecontrol area. The ratio of the two fluorescence values was used to calculate the content of the detected substances.

[MAIN COMPONENTS]

TT3 test strip and special tip in a sealed pouch with desiccant.......

25 tests

2.	Sample diluent	25 pieces
3.	QR code card for calibration	1 piece
4	Hear Manual	1 nioco

Note: Do not mix or interchange different batches of kit.

[STORAGEANDVALIDITY]

Store the test kit at 4°C-30°C, with a valid period of 18 months. Test strip should be used within 30 minutes once the foil pouch is opened.

[APPLICABLEDEVICES]

- 1. LS-1000 Dry Fluorescence Immunoassay Analyzer
- 2. LS-2000 Dry Fluorescence Immunoassay Analyzer
- 3. LS-1100 Dry Fluorescence Immunoassay Analyzer

- 4. LS-2100 Dry Fluorescence Immunoassay Analyzer
- 5. LS-4000 Hand-Held Dry Fluorescence Immunoassay Analyzer
- 6. LS-7000 Dry Fluorescence Immunoassay Analyzer
- 7. LS-7100 Microfluidic and Dry Fluorescence Immunoassay Analyzer
- 8. LS-7800 Automatic Microfluidic and Dry Fluorescence Immunoassay
 Analyzer
- 9. LS-3000 Automatic Fluorescence Immunoassay Analyzer
- 10. LS-3100 Automatic Fluorescence Immunoassay Analyzer

[SAMPLEREQUIREMENT]

- Used for human serum and plasma. Other bodily fluids and samples may not get the accurate result.
- Plasma can be anticoagulant with heparin and sodium citrate under aseptic conditions.
- At room temperature, the test should be performed within 4 hours after the sample collection.
- 4. Serum or plasma sample can be stored at 2°C-8°C for 3 days at most. If more than 3 days, it should be stored at -20°C. It is suggested to use fresh sample to test. Stale blood sample may not get accurate result.
- The sample before testing should be recovered to room temperature (15°C-30°C).
- 6. Sample Volume: 100µL

[TEST PROCEDURE]

- 1. Collect samples according to user manual.
- Before the test, the sample and test stripshould be recovered to room temperature (15°C-30°C).

For LS-1100

- Perform QR code calibration when necessary. (Details refer to LS-1100 User Manual)
- On the main interface of LS-1100, press "Test" icon to enter testing interface. Input patient information, sample information, doctor information when necessary. (Details refer to LS-1100 User Manual)
- Remove test strip and special tip from sealed pouch and put it on a clean table. horizontally placed.
- 6. Using pipette and special tip to deliver 100μL sample into one tube of sample diluent(Slowly absorb and blow the sample more than 10 times). Mix gently and thoroughly. Let it stand for 10 minutes. And then drop 100μL of mixed fluid into the sample port in the test strip.

7. Reaction Time: 15 minutes

For panel inside: Insert the test strip into the analyzer immediately after sample dispensing. Then click "Test".

For panel outside: After reaction time 15 minutes is elapsed, insert the test strip into the analyzer and then click "Test".

8. The result will be shown on the screen and printed automatically.

Notes: It is required to perform QR code calibration when starting to use one new batch of kit.

It is required to use the special tip which is sealed in the sealed pouch.

[EXPECTED VALUE]

Reference Range: 1.3nmol/L-2.7nmol/L.

TT3 concentration is determined using samples obtained from 200





apparently healthy individuals.

It is recommended that each laboratory establish its own reference range for the population it serves.

[INTERPRETATION OF RESULT]

- If the test result of the sample is more than 10nmol/L, the analyzer displays ">10nmol/L", and if the result is less than 0.5nmol/L, the analyzer displays "<0.5nmol/L". Specific data can be exported through related software as needed.
- 2. When the sample concentration exceeds the detection limit, the maximum dilution ratio is 3 times when the sample is diluted with calf serum or negative sample.

[LIMITATION]

- 1. This kit is only for the serum and plasma test.
- 2. The test result of this kit are only one of the diagnostic aids for the
- The result of the test should be evaluated in the context of all the clinical and laboratory data available. In those instances where the laboratory results do not agree with the clinical evaluation, additional tests should be performed accordingly.

[PRODUCTPERFORMANCE]

- 1. Measuring Range:0.5-10nmol/L.
- 2. Lower Detection Limit: ≤0.5nmol/L.
- Accuracy: Verify with comparison experiments, the relative deviation ≤15%, the correlation coefficient r≥0.990.
- 4. Within-Run Precision: ≤15%.
- 5. Between-Run Precision: ≤15%.
- Hook Test: No hook effect with high concentration sample. Hook test
 was conducted with reference material exceeding the upper limit of
 linear range, and the detection result was greater than the upper limit
 of detection.

[PRECAUTIONS]

- 1. Only used for in vitro diagnostics.
- 2. Do not use the kit beyond the expiration date.
- After the test strip is removed from the sealed pouch, it should be tested as soon as possible to avoid excessive time in the air, resulting in dampness.
- 4. Do not reuse the test strip.
- 5. The damaged test strip or package cannot be used.
- 6. Do not mix the components of different kits.

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Production date and expiration see the label.