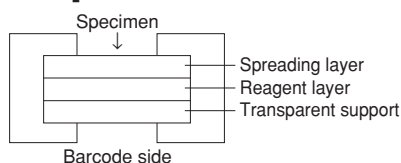


FUJI DRI-CHEM SLIDE TG-PIII

[Warnings and precautions]

- Only the required number of slides should be taken out of the refrigerator and warmed up to room temperature before opening the individual packages.
- Do not touch either the center part of the surface or the back of the slide.
- A new slide must be used for each measurement. Do not reuse.
- Handle all patient specimens, control serum and used tips carefully as biohazardous samples. Wear proper gloves, glasses and other protective gear for your safety.
- Used slides are categorized as infectious waste. Make sure to dispose them in accordance with the Waste Disposal Law and other related regulations, which prescribe the proper method of disposal, such as incineration, melting, sterilization or disinfection.
- Do not use specimen from a patient administered glycerol.

[Composition of the slide]**1. Multi-layered structure****2. Ingredients per slide**

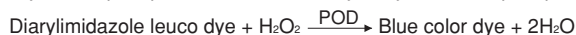
• Lipoprotein lipase	0.40 U
• Diarylimidazole leuco dye	0.035 mg (0.069 µmol)
• Adenosine 5'-triphosphate disodium salt	0.23 mg (0.42 µmol)
• Glycerol kinase	0.13 U
• Glycerol-3-phosphate-oxidase	0.30 U
• Magnesium sulfate	0.25 mg (1.0 µmol)
• Peroxidase	2.3 U

[Intended use]

Quantitative measurement of triglyceride concentration in plasma or serum.
For *in vitro* diagnostic use only.

[Principle of the measurement]

10 µL of plasma is deposited on a FUJI DRI-CHEM SLIDE TG-PIII. After depositing, the specimen spreads uniformly on the spreading layer and lipoprotein is dehydrolyzed by LPL to form glycerol that diffuses into the underlying layer. In the reagent layer, glycerol is changed to glycerol-3-phosphate in the presence of GK and further to dihydroxyacetone-3-phosphate by the action of glycerol-3-phosphate-oxidase (GPO). In this process hydrogen peroxide (H₂O₂) is generated, which oxidizes diarylimidazole leuco dye by the action of peroxidase (POD) to form blue color dye. The slide is incubated at 37 °C for a fixed time in the FUJI DRI-CHEM analyzer and the optical reflection density is measured at 650 nm. The optical reflection density is then converted into the triglyceride concentration using a calibration curve preinstalled in the analyzer.

**[Additional special equipment]**

Analyzer: FUJI DRI-CHEM ANALYZER

Other implements: FUJI DRI-CHEM QC CARD (attached)

: FUJI CLEAN TIPS

: FUJI HEPARIN/PLAIN TUBE or Blood collection tube specified in the "INSTRUCTION MANUAL" for FUJI DRI-CHEM ANALYZER

[Specimen requirements]

- After collecting the blood specimen, immediate measurement is recommended.
- For plasma, heparin and EDTA salt can be used as the anticoagulant. When using heparin, less than 50 units of heparin should be used per 1 mL of whole blood. When using EDTA salt, less than 5 mg should be used per 1 mL of whole blood. Do not use sodium fluoride, citric acid, oxalic acid and monoiodoacetic acid.
- Avoid using plasma with precipitate such as fibrin.
- Do not use hemolytic plasma or serum.
- When the measured value exceeds the upper limit of the dynamic range, dilute the sample with distilled water or saline. Since the data obtained by dilution may deviate more widely than usual, the data should be treated as estimation.

[Procedure]

- Read in the new QC-card when you switch to a new box of slides.

- Set slides on FUJI DRI-CHEM analyzer.
- Set a sample tube in the specified sample rack.
- Input a sequence No. and a sample ID if appropriate.
- Press the "START" key to initiate testing.

For further details of operation procedure, consult "INSTRUCTION MANUAL" for FUJI DRI-CHEM analyzer.

[Reference intervals]

0.56–1.68 mmol/L (50–149 mg/dL)

As the reference intervals depend on the population of the test, it is required that each laboratory set its own reference intervals. The clinical diagnosis must be made by the doctor in charge based on the measured results in the light of clinical symptoms and other test results.

[Performance characteristics]

1. Dynamic range 0.11–5.65 mmol/L (10–500 mg/dL)

2. Accuracy

Concentration range	Accuracy
0.11–1.13 mmol/L	Within ± 0.17 mmol/L
1.13–5.65 mmol/L	Within ± 15 %

3. Precision

Concentration range	Precision
0.11–1.13 mmol/L	SD ≤ 0.07 mmol/L
1.13–5.65 mmol/L	CV ≤ 6 %

4. Correlation

Correlation was evaluated between GPO method and FUJI DRI-CHEM system. GPO method was run on a HITACHI automated analyzer. This examination was carried out at the laboratory of FUJIFILM Corporation.

	n	Slope	Intercept	Correlation coefficient
Serum	54	0.986	0.01	0.992

5. Known interfering substances

- Dobutamine hydrochloride (cardiotonic reagent) gives minus bias.
- Glycerol gives plus bias.
- The effects on the measured value were examined by adding substances as shown below to a serum sample obtained from a healthy volunteer or a control serum. No significant effect was observed to the following concentration for each substance.

Ascorbic acid	0.57 mmol/L
Bilirubin	340 µmol/L
Hemoglobin	5000 mg/L
Total protein	60–95 g/L

These results are representative;

- Test condition may have some influence on your results.
- Interferences from other substances are not predictable.

[Internal quality control]

The accuracy and precision of this product can be evaluated with FUJI DRI-CHEM CONTROL QP-L and/or QP-H.

- Select control level in accordance with your purpose.
- Measure FUJI DRI-CHEM CONTROL QP-L and/or QP-H in the same way as patient specimens.
- When the results obtained are outside the expected range shown in the sheet attached to FUJI DRI-CHEM CONTROL QP-L or QP-H, investigate the cause. For additional information, consult "Instructions for Use" for FUJI DRI-CHEM CONTROL QP-L or QP-H.

[Traceability of calibrators and control materials]

Triglyceride...NIST (SRM1951)

Note: This reference material is applied to the reference method of FUJIFILM Corporation and is not directly applicable to FUJI DRI-CHEM SLIDE.

NIST: National Institute of Standards & Technology

[Storage and shelf life]

- Storage: This product must be stored between 2–8 °C (35.6–46.4 °F) before use.
- Expiry date is printed on the carton.
- Use immediately after opening the individual package.

[Contents]

: Slide	24
: QC card	1



<http://lifescience.fujifilm.com>



FUJIFILM Europe GmbH
Heesenstr. 31, D-40549 Düsseldorf, GERMANY



FUJIFILM Corporation
3-11-46, Senzui, Asaka-shi, Saitama, 351-8585, JAPAN

