



Triglycerides FS*

In-vitro-Diagnostic for veterinary use only

Diagnostic reagent for quantitative in vitro determination of triglycerides in serum or plasma on DiaSys respons[®]910 VET

Order Information

Cat. No. 1 5710 99 11 923

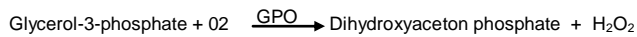
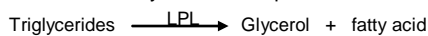
4 containers for 200 tests each

Method

Colorimetric enzymatic test using glycerol-3-phosphate-oxidase (GPO)

Principle

Determination of triglycerides after enzymatic splitting with lipoprotein lipase. Indicator is quinoneimine which is generated from 4-aminoantipyrine and 4-chlorophenol by hydrogen peroxide under the catalytic action of peroxidase.



Reagent

Components and Concentrations

Good's buffer	pH 7.2	50 mmol/L
4-Chlorophenol		4 mmol/L
ATP		2 mmol/L
Mg ²⁺		15 mmol/L
Glycerokinase	(GK)	≥ 0.4 kU/L
Peroxidase	(POD)	≥ 2 kU/L
Lipoprotein lipase	(LPL)	≥ 2 kU/L
4-Aminoantipyrine		0.5 mmol/L
Glycerol-3-phosphate-oxidase	(GPO)	≥ 0.5 kU/L

Storage Instructions and Reagent Stability

Reagent is stable up to the end of the indicated month of expiry, if stored at 35.6 – 46.4°F, protected from light and contamination is avoided. DiaSys respons containers provide protection from light. Do not freeze the reagent!

Warnings and Precautions

- The reagent contains sodium azide (0.95 g/L) as preservative. Do not swallow! Avoid contact with skin and mucous membranes.
- The reagent contains biological material. Handle the product as potentially infectious according to universal precautions and good laboratory practice.
- In very rare cases, samples of animals with gammopathy might give falsified results.
- N-acetylcysteine (NAC), acetaminophen and metamizole medication leads to falsely low results.
- Please refer to the safety data sheets and take the necessary precautions for the use of laboratory reagents. For diagnostic purposes, the results should always be assessed with the animal's medical history, clinical examinations and other findings.
- For professional use only!

Waste Management

Please refer to local legal requirements.

Reagent Preparation

The reagent is ready to use. The bottles are placed directly into the reagent rotor.

Specimen

Serum, heparin plasma or EDTA plasma

Stability :

2 days at 39.2°F to 46.4°F

Discard contaminated specimens.

Reagent Information

Calibrators and Controls

For calibration, DiaSys TruCal U calibrator is recommended. The assigned values of the calibrator have been made traceable to the reference method gas chromatography-isotope dilution mass spectrometry (GC-IDMS). For internal quality control DiaSys TruLab N and P or TruLab L controls should be assayed. Each laboratory should establish corrective actions in case of deviations in control recovery.

	Cat. No.	Kit size
TruCal U	5 9100 99 11 063	20 x 3 mL
TruLab N	5 9000 99 11 062	20 x 5 mL
TruLab P	5 9050 99 11 062	20 x 5 mL
TruLab L Level 1	5 9020 99 11 065	3 x 3 mL
TruLab L Level 2	5 9030 99 11 065	3 x 3 mL

Performance Characteristics

The performance characteristics were evaluated with human samples and might differ from results obtained with various animal specimen.

Measuring range up to 1000 mg/dL triglycerides (in case of higher concentrations re-measure samples after manual dilution with NaCl solution (9 g/L) or use rerun function).	
Limit of detection**	4 mg/dL triglycerides
On-board stability	4 weeks
Calibration stability	7 days

Interfering substance	Interferences < 10%	Triglycerides [mg/dL]
Ascorbate	up to 9 mg/dL	225
Hemoglobin	up to 290 mg/dL	243
	up to 300 mg/dL	534
Bilirubin, conjugated	up to 20 mg/dL	168
	up to 30 mg/dL	485
Bilirubin, unconjugated	up to 10 mg/dL	163
	up to 48 mg/dL	450




For further information on interfering substances refer to Young DS. Effects of Drugs on Clinical Laboratory Tests. 5th. ed. Volume 1 and 2. Washington, DC: The American Association for Clinical Chemistry Press, 2000.

** according to NCCLS document EP17-A, vol. 24, no. 34

Conversion Factor

Triglycerides [mg/dL] x 0.01126 = Triglycerides [mmol/L]

Reference Range

			
DOG	CAT	HORSE	Unit
22 – 96	25 – 120 *	13 – 42	mg/dL

Source:

Reference ranges have been validated by DiaSys USA according to National Reference Laboratory standards.

* Estimated:

Source: Diagnostic Center for Population and Animal Health; Clinical Pathology Laboratory; Michigan State University East Lansing.

Each laboratory should check if the reference ranges are transferable to its own animal population and determine own reference ranges if necessary.

Manufacturer

DiaSys Diagnostic Systems GmbH
Alte Strasse 9 65558 Holzheim Germany