



# Triglycerides FS\*

## Order Information

**Cat. No.**  
1 5710 99 11 923

**Kit size**  
 800 (4 x 200)

## Intended Use

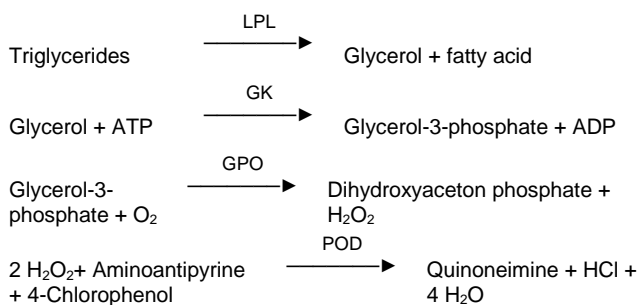
Diagnostic reagent for quantitative in vitro determination of triglycerides in serum or heparin plasma on automated DiaSys respons<sup>®</sup>910 VET.

For veterinary use only.

## Method

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

Determination of triglycerides after enzymatic splitting with lipoprotein lipase. Quinoneimine is the indicator, 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 <sup>2+</sup>		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 and Stability

The reagent is stable up to the date of expiry indicated on the kit, if stored at 35.6 - 46.4°F and contamination is avoided. Protect the reagent from light.

## 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 animal material. Handle the product as potentially infectious according to universal precautions and good laboratory practice.
- N-acetylcysteine (NAC), acetaminophen and metamizole medication leads to falsely low results in animal samples.
- In very rare cases, samples of animals with gammopathy might give falsified 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

Refer to local legal requirements.

## Reagent Preparation

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

## Materials Required

General laboratory equipment

## Specimen

Serum or heparin plasma

Stability:  
2 days at 39.2 – 46.4°F

Discard contaminated specimens.

## Calibrators and Controls

DiaSys TruCal U is recommended for calibration. TruCal U calibrator values have been made traceable to the reference method gas chromatography-isotope dilution mass spectrometry (GC-IDMS). Use DiaSys TruLab N and P or TruLab L Level 1 and Level 2 for internal quality control. Each laboratory should establish corrective action 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.	
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
Onboard stability	4 weeks
Calibration stability	7 days

Interfering substance	Interferences ≤ 10% up to	Analyte concentration [mg/dL]
Ascorbic acid	9 mg/dL	225
Bilirubin (conjugated)	20 mg/dL	168
	30 mg/dL	485
Bilirubin (unconjugated)	10 mg/dL	163
	48 mg/dL	450
Hemoglobin	290 mg/dL	243
	300 mg/dL	534

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 CLSI document EP17-A, Vol. 24, No. 34

## Conversion Factor

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




**Reference Range**

			
<b>DOG</b>	<b>CAT</b>	<b>HORSE</b>	<b>Unit</b>
<b>22 - 96</b>	<b>25 - 120<sup>1</sup></b>	<b>13 - 42</b>	<b>mg/dL</b>

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

<sup>1</sup> Estimated: Based on preliminary results and findings in the literature.

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

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\* Fluid Stable