



ALAT (GPT) FS* (IFCC mod.)

Order Information

Cat. No. 1 2701 99 11 920
Kit size 800 (4 x 200)

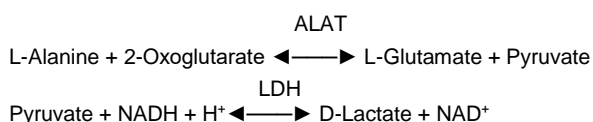
Intended Use

Diagnostic reagent for quantitative in vitro determination of ALAT (GPT) in serum + heparin plasma on automated DiaSys respons[®]910 VET.

For veterinary use only.

Method

Optimized UV-test according to IFCC (International Federation of Clinical Chemistry and Laboratory Medicine) [modified]



Reagents

Components and Concentrations

R1: TRIS pH 7.15 140 mmol/L
 L-Alanine 700 mmol/L
 LDH (lactate dehydrogenase) ≥ 2300 U/L
R2: 2-Oxoglutarate 85 mmol/L
 NADH 1 mmol/L

Storage and Stability

Reagents are stable up to the date of expiry indicated on the kit, if stored at 35.6 - 46.4°F and contamination is avoided. Do not freeze and protect from light.

Warnings and Precautions

- The reagents contain sodium azide (0.95 g/L) as preservative. Do not swallow! Avoid contact with skin and mucous membranes.
- Reagent 1 contains animal and biological material. Handle the product as potentially infectious according to universal precautions and good clinical laboratory practice.
- Reagent 2 contains biological material. Handle the product as potentially infectious according to universal precautions and good clinical laboratory practice.
- Sulfasalazine and sulfapyridine medication may cause false results in animal samples. Blood collection must be performed prior to drug administration.
- 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 reagents are 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 calibrator is recommended for calibration. This method has been standardized against the original IFCC formulation. Use DiaSys TruLab N and P 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

Performance Characteristics

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

Measuring range up to 600 U/L. In case of higher activities re-measure samples after manual dilution with NaCl solution (9 g/L) or use rerun function.	
Limit of detection**	3 U/L
Onboard stability	4 weeks
Calibration stability	4 weeks

Interfering substance	Interferences ≤ 10% up to	Analyte concentration [U/L]
Ascorbic acid	30 mg/dL	81.1
Bilirubin (conjugated)	50 mg/dL	46.7
	55 mg/dL	70.3
Bilirubin (unconjugated)	45 mg/dL	33.5
	45 mg/dL	63.5
Hemoglobin	500 mg/dL	36.0
	850 mg/dL	78.1
Lipemia (triglycerides)	1000 mg/dL	40.3
	1000 mg/dL	131

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

ALAT [U/L] x 0.0167 = ALAT [μkat/L]

Reference Range

		Unit
DOG	CAT	U/L
24 - 97	33 - 119	

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

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

DiaSys Diagnostic Systems GmbH
 Alte Strasse 9 65558 Holzheim Germany
 www.diasys-us.com

* Fluid Stable