



LDH 21 FS*

Order Information

Cat. No.

1 4251 99 11 920

Kit size



800 (4 x 200)

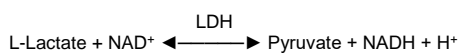
Intended Use

Diagnostic reagent for quantitative in vitro determination of lactate dehydrogenase (LDH) in serum or 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:	N-Methyl-D-Glucamine	pH 8.4	420 mmol/L
	L-Lactate		65 mmol/L
R2:	NAD ⁺		50 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

1. Reagent 1 contains sodium azide (0.95 g/L) as preservative. Do not swallow! Avoid contact with skin and mucous membranes.
2. ⚠ Reagent 1: Warning. H373 May cause damage to organs through prolonged or repeated exposure. P260 Do not breathe mist/vapors/spray. P314 Get medical advice/attention if you feel unwell. P501 Dispose of contents/container to hazardous or special waste collection point.
3. In very rare cases, samples of patients with gammopathy might give falsified results.
4. 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.
5. 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 is recommended for calibration. TruCal U calibrator values have 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 specimens.

Measuring range up to 1500 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**	35 U/L
Onboard stability	8 weeks
Calibration stability	1 week

Interfering substance	Interferences ≤ 10% up to	Analyte concentration [U/L]
Ascorbic acid	30 mg/dL	183
	30 mg/dL	277
Bilirubin (conjugated)	60 mg/dL	172
	60 mg/dL	265
Bilirubin (unconjugated)	60 mg/dL	208
	60 mg/dL	265
Lipemia (triglycerides)	2000 mg/dL	183
	2000 mg/dL	265
Sulfapyridine	30 mg/dL	172
	30 mg/dL	271
Sulfasalazine	30 mg/dL	182
	30 mg/dL	269

Hemoglobin interferes at low concentrations.

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-A2, Vol. 32, No. 8

Conversion Factor

LDH [U/L] x 0.0167 = LDH [µkat/L]



Reference Range

			
DOG	CAT	HORSE	Unit
0 – 236¹	35 – 225¹	112 – 456¹	U/L

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

¹ Estimated: Based on preliminary results and findings in the literature.

Each laboratory should determine own reference ranges for its individual animal population.



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* Fluid Stable