Albumin FS*

Order Information

Cat. No.	Kit size
1 0220 99 11 923	Σ 800 (4 x 200)

Intended Use

Diagnostic reagent for quantitative in vitro determination of albumin in serum or heparin plasma on automated DiaSys respons®910 VET.

For veterinary use only.

Method

Photometric test using bromocresol green

In the presence of bromocresol green at a slightly acid pH, serum albumin produces a color change of the indicator from yellow-green to green-blue.

Reagents

Components and Concentrations

Citrate buffer	pH 4.2	30 mmol/L
Bromocresol green		0.26 mmol/L

Storage and Stability

The reagent is stable up to the date of expiry indicated on the kit, if stored at 35.6 - 77°F and contamination is avoided. Do not freeze the reagent and protect it from light.

Warnings and Precautions

1. In very rare cases, samples of animals with gammopathy might give falsified results.
2. 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.
3. 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 material ERM-DA470. 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 6 g/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**	0.1 g/dL
Onboard stability	6 weeks
Calibration stability	5 weeks

Interfering substance	Interferences ≤ 10% up to	Analyte concentration [g/dL]
Ascorbic acid	30 mg/dL	3.31
Hemoglobin	500 mg/dL	3.57
	550 mg/dL	5.47
Bilirubin (conjugated)	70 mg/dL	3.33
	70 mg/dL	5.15
Bilirubin (unconjugated)	70 mg/dL	3.35
	70 mg/dL	5.04
Lipemia (triglycerides)	800 mg/dL	3.25
	950 mg/dL	5.02
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
Albumin [g/dL] x 144.9 = Albumin [µmol/L]

Reference Range

				
DOG	**CAT**	**HORSE**	**CATTLE**	**Unit**
2.9 - 3.8	**3.1 - 4.3**	**3.1 - 4.0**	**3.4 - 4.2**	**g/dL**

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.

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* Fluid Stable