



# Bilirubin Auto Direct FS\*

## Order Information

**Cat. No.** 1 0821 99 11 920  
**Kit size** 800 (4 x 200)

## Intended Use

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

For veterinary use only.

## Method

Photometric test using 2,4-dichloroaniline (DCA)

Direct bilirubin in presence of diazotized 2,4-dichloroaniline forms a red colored azocompound in acidic solution.

## Reagents

### Components and Concentrations

<b>R1:</b>	EDTA-Na <sub>2</sub>	0.1 mmol/L
	NaCl	150 mmol/L
	Sulfamic acid	100 mmol/L
<b>R2:</b>	2,4-Dichloroaniline	0.5 mmol/L
	HCl	900 mmol/L
	EDTA-Na <sub>2</sub>	0.13 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

- ⚠ Reagent 1: Warning. H290 May be corrosive to metals. P234 Keep only in original container. P390 Absorb spillage to prevent material damage.
- ⚠ Reagent 2: Danger. H290 May be corrosive to metals. H315 Causes skin irritation. H318 Causes serious eye damage. P234 Keep only in original container. P280 Wear protective gloves/protective clothing/eye protection. P302+P352 If on skin: Wash with plenty of water/soap. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center/doctor. P390 Absorb spillage to prevent material damage.
- Eltrombopag medication leads to falsely low or high results in animal samples.
- Take special care to avoid contamination and carry-over, particularly in combination with Rheumatoid factor FS.
- 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

Protect sample from light.

Stability:

2 days at 39.2 – 46.4°F

Discard contaminated specimens.

## Calibrators and Controls

DiaSys TruCal U is recommended for calibration. Calibrator values have been made traceable to the manual Jendrassik-Gróf test. 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 7 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**	0.1 mg/dL	
Onboard stability	6 weeks	
Calibration stability	3 weeks	
Interfering substance	Interferences ≤ 10% up to	Analyte concentration [mg/dL]
Ascorbic Acid	30 mg/dL	2.16
Hemoglobin	< 5 mg/dL	0.27
	25 mg/dL	5.35
Lipemia (triglycerides)	400 mg/dL	0.44
	2000 mg/dL	4.80
Naproxen	1 mmol/L	0.15
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

Bilirubin [mg/dL] x 17.1 = Bilirubin [µmol/L]

## Reference Range

				Unit
DOG	CAT	HORSE	CATTLE	mg/dL
0.0 - 0.1	0.0 - 0.1	0.3 - 0.7	0.0 - 0.1	

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](http://www.diasys-us.com)

\* Fluid Stable