

BILIRUBIN AUTO TOTAL FS*

Order information

Cat. No.	Kit size							
10 081 021	R1	5 x	20 ml	+	R2	1 x	25 ml	
10 081 022	R1	5 x	80 ml	+	R2	1 x	100 ml	
10 081 023	R1	1 x	800 ml	+	R2	1 x	200 ml	

Method

Colorimetric test, "DCA (2,4-Dichloroaniline)"

Total Bilirubin in presence of diazotized 2,4-Dichloroaniline forms a red colored azocompound in acidic solution. A specific mixture of detergents enables a safe determination of the Total Bilirubin.

Reagent preparation and stability

The reagents are ready-to-use and stable up to the end of the indicated month of expiry, if contamination is avoided and stored at - 8 °C. The reagent 2 must be protected from light.

Specimen

Serum, heparinized or EDTA plasma. Avoid hemolysis!
Store protected from light.

Stability: 1 day at 15 – 25 °C
4 days at 2 – 8 °C
up to 3 months at - 20 °C
(not in case of repeated deep freezing)

Components and concentration in the test

R1:	TRIS	pH 8.2	8 mmol/l
	NaCl		7 g/l
	Detergents		
R2:	2,4-Dichlorophenyl Diazoniumsalt		1 mmol/l
	HCl		30 mmol/l
	Detergents		

Notes

Ascorbic acid and Hemoglobin interfere.

Normal range (see reference 2,3)

Newborn	0 - 24 h:	up to 5 mg/dl (86 µmol/l)
	24 - 48 h:	up to 9 mg/dl (155 µmol/l)
	3 – 5 days:	up to 12 mg/dl (205 µmol/l)
	after 4 weeks:	up to 1.5 mg/dl (26 µmol/l)
Adults:		up to 1.1 mg/dl (18.8 µmol/l)

References

1. Rand, R. N., di Pasqua, A., Clin Chem., 8, (1962), 570
2. Weigl, E., Bach, H., Krieg, D., Med. Klin., 70, (1975), 664 – 669
3. Keller, H.: Klinisch-chemische Labordiagnostik für die Praxis, 2nd edition, Georg Thieme Verlag, Stuttgart 1991, 246

SYNCHRON CX-CLINICAL SYSTEM

USER-DEFINIED CHEMISTRY SETUP

Test Name:	TBIL	User def. No:	#
Chem. Name:	Total Bilirubin		
Reaction Type:	Endpoint 2		
Unit:	mg/dl	No of Calibrators	1
Decimal Prec.:	x.x	Calibrator:	*
Reaction Dir.:	positive	2:	
Calculation Factor:	*	3:	
Math. Model:	Linear	4:	
Cal. Time Limit:	168	5:	
		6:	
Prim Wavelength	560	Sec Wavelength	650
Reagent 1 [A] Vol:	240 µl	[B] Vol.:	0 µl
Reagent 2 [C] Vol.:	60 µl	Add Time:	420s
Sample Volume:	10 µl		
Reagent Blank		Reaction	
Start Read:	380 sec	Start Read:	360s
End Read:	400 sec	End Read:	390s
Usable Range Lower Limit:	0.0		
Upper Limit:	30.0		
Error Detection Limits			
Reagent Blk Low:	-0.500	Reaction Low:	-0.500
High:	1.500	High:	1.500
Substrate Depletion:			
Initial Rate:	-	Delete Abs.:	-
Multipoint Span:	-		

#) Data entry by the user

*) Enter calibrator value or factor (the factor has to be checked by calibration or controls)

F4 Special Functions

- 5 Enter user defined Chemistry
- F1 Define/Check
- Enter number between 1 - 100

* fluid stable