

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			

**BAYER / TECHNICON
RA-SYSTEM**

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 $15 - 25^{\circ}\text{C}$
4 days at $2 - 8^{\circ}\text{C}$
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 $\mu\text{mol/l}$)
	24 - 48 h:	up to 9 mg/dl (155 $\mu\text{mol/l}$)
	3 - 5 days:	up to 12 mg/dl (205 $\mu\text{mol/l}$)
	after 4 weeks:	up to 1.5 mg/dl (26 $\mu\text{mol/l}$)
Adults:		up to 1.1 mg/dl (18.8 $\mu\text{mol/l}$)

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

CHEMISTRY SETTINGS

Temperature: 37°C

METHOD NO (FREE NO)	#		
CODE	#		
NAME	TBIL		
IMMUNOASSAY	0	IA TABLE	-
TYPE	2		
INV METHOD	0		
% SAMPLE VOL	20%		
FILTER POS	5(550)		
BIC CHEM	0	FILTER 2	-
BIC FACT 1	0	BIC FACT 2	-
BIC LIM 1	0	BIC LIM 2	-
DEP. LIM	0		
DELAY	5:00		
INCUBATION			
DEFAULT	0	BLANK	0
% REAG VOL	70%		
2ND REAG	YES	2RGT VOL	14%
A1 DLY.		A2 DLY	0:15
UNITS	mg/dl		
UNIT FAC	1.000	DECIMAL	1
RBL LOW LIM	0	RBL HIGH LIM	2.00
RANGE LOW	0	RANGE HIGH	30.0
CAL FACTOR	1.00		
RGT RATE	-		
STD VAL	*		
NORMAL L	0	NORMAL H	1.1
SLOPE	1.00	INTERCEPT	0.00
LIN FACT	-	1.0 LIM	-
EP LIM	0.010		
C 1* 10E-6	-	C 2* 10E-6	-
D 1* 10E-6	-	DELTA-Z	-

#) Data entry by the user

*) Enter calibration or standard value and position

***) The factor must be checked by a calibration serum.

* fluid stable

15.04.08