

# BILIRUBIN AUTO TOTAL FS\*

## CLINLINE 150

### 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 2 – 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

<b>R1:</b>	TRIS	pH 8.2	8 mmol/l
	NaCl		7 g/l
	Detergents		
<b>R2:</b>	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, 2<sup>nd</sup> edition, Georg Thieme Verlag, Stuttgart 1991, 246

### Assay Parameters at 37°C

Test Name		Tot Bili
Short Name		TBIL
Units		µmol/l
Assay Type		EP STD
Filter Value		540
1 <sup>st</sup> Read. = 0		NO
Lag Phase 1		10
NB Mesur		10
Reag.1	Vol	250
	Dil	0
	Pos	1 to 28
Reag.2	Vol	60
	Dil	0
	Pos	1 to 28
Sample	Vol	6
	Dil	0
Activation		REAG 2
Lag Phase 2		0
Factor		-
Stand. Calcul		1 DEG
Blk = Stand.		YES
Nb.of Stand		1
Stand. 1	Val	Calibrator Value
	Pos	76 to 89
Stand. 2	Val	-
	Pos	-
NB Rep St/Ct		2
Control	Val	Control Value
	Pos	76 to 89
	Dev	Standard deviation
Predil Rate		1
Postdil Rate		10
Diluent		Water
Rinse Type		3
Up Norm Val		17
Low NormVal		0
Linearity L		513
Lower Blk L		0
Upper Blk L		3000
Blk Acti. L		
ODT 1 – ODTO L		
Pred St/CT		-

\* fluid stable