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 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

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

* fluid stable

HITACHI 917

Chemistry parameters

Analysis

Test / Type	TBIL						Ser/Pl			
Assay / Time / Point	2 Point End	A	10	A	15	34	0	0		
Wave (2nd/Primary)	660	A	546	A						
S.Vol (Normal)	5	0	0							
S.Vol (Decrease)	1	0	0							
S.Vol (Increase)	10	0	0							
Diluent	00951	99							Timing	
Reagent (R1) T1	200	0	#	60					R1	
Reagent (R2) T2	0	0	#	0					R2	
Reagent (R3) T3	50	0	#	60					R3	
Reagent (R4) T4	0	0	#	0						
Abs. Limit	12000	Increase	A							
Prozone Limit	32000	0	Lower	A						
Cell Detergent	Detergent 1	A								

Calibration

Calibration type	Linear	A		A
Point	2	Span Point	2	
Weight	0			

Autocalibration

	Time Out	Change Over	
Blank		Blank	A
Span		Blank	A
2Point			
Full			

SD Limit	0.1			
Duplicate limit	10	%	200	Abs
Sensitivity limit	-99999	999999		
S1 Abs limit	-32000	32000		

Range

Application Code	#	Unit	mg/dl	A
Report Name	Bilirubin Total			
Data Mode	On Board	A		
Control Interval	1000			
Instrument Factor (Y=aX+b)	a= 1.0	b= 0.0		
Technical Limit	0.0	30.0		
Repeat Limit	0.0	30.0		

Expected Value

						Qualitative		
(Male)		Y	A				Cancel	A
		Y	A			(1)	0	
				0.0	1.1	(2)	0	
(Female)		Y	A			(3)	0	
		Y	A			(4)	0	
						(5)	0	
(Default)	Male	A	Range3	A		(6)	0	

Others

<Standard>	(1)	(2)	(3)	(4)	(5)	(6)
Calib. Code	501	#				
Concentration	0.0	*				
Position						
Sample Volume	5	5				
Diluent S.Vol	0	0				
Diluent Volume	0	0				

#) Data entry by the user
*) Enter calibration or standard value

15.04.08