

BILIRRUBINA AUTO TOTAL FS*

Order information

Cat. No. Kit size
10 081 021 R1 5 x 20 ml + R2 1 x 25 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

Gilford Express 550

Test Parameters

Test Name	Total Bilirubin
Test	T-BIL
Test Bar Code	#007
Test Type	Endpoint
Curve Type	Blank Linear
Units	mg/dl
No. of decimal places	1
Primary Wavelength	540nm
Secondary Wavelength	600nm
Read Time/ Interval	20
Sample Blank	yes
Factor	*
Calibration Interval	48
Normalization Interval	
No. of Calibrators	2
No. of Replicates	2
Low Blank A Limit	0.000
High Blank A Limit	1.500
Low A limit	0.000
High A Limit	1.500
Low Normal	0.2
High Normal	1.1
Linearity Limit	30
Curve S D Limit	0.25

Reagent Parameters

Test Name	Bilirubin
Test	T-BIL
Test Bar Code	#007
Sample Volume	10 µl
Sample Diluent	
Predilution Ratio	
Rerun Dilution Ratio	2
Predilution	1
Reagent Diluent	
Reagent 1: Volume	240 µl
Diluent volume	
Bar Code	TB1A
Lag Time	240sec
Reagent 2 : Volume	60 µl
Diluent volume	
Bar Code	TB2A
Lag Time	240sec

* fluid stable