CORALYZER
System Pack

Total Protein Kit

(Biuret Method)

For the determination of Total Proteins in serum or plasma.
(For Invitro Diagnostic Use Only)

Summary
Proteins are constituents of muscle, enzymes, hormones and several other key functional and structural entities in the body. They are involved in the maintenance of the normal distribution of water between blood and the tissues. Consisiting mainly of albumin and globulin the fractions vary independently and widely in diseases. Increased levels are found mainly in dehydration. Decreased levels are found mainly in malnutrition, impared synthesis, protein losses as in hemorrhage or excessive protein catabolism.

Principle
Proteins, in an alkaline medium, bind with the cupric ions present in the biuret reagent to form a blue-violet coloured complex. The intensity of the colour formed is directly proportional to the amount of Proteins present in the sample.



Normal reference values
Serum & Plasma : 6.0 - 8.0 g/dl

It is recommended that each laboratory establish its own normal range representing its patient population.

Contents

Coralyzer 100 System Packs	**90 ml**	**270 ml**
L1 : Biuret Reagent	3 x 30 ml	9 x 30 ml

Coralyzer 200 System Packs	**80 ml**	**320 ml**
L1 : Biuret Reagent	2 x 40 ml	8 x 40 ml

Storage / stability
Biuret Reagent is stable at R.T. till the expiry mentioned on the label.

Reagent preparation
Reagents are ready to use. Protect from bright light.

Sample material
Serum or plasma. Proteins are reported to be stable in the sample for 6 days at 2 - 8°C.

Calibration
Calibrator is recommended for calibration of this assay.

Linearity
This procedure is linear up to 15 g/dl.

Note
Do not use if the reagent shows turbidity or black precipitates.

References
Gornall, A.G., etal, (1949) Biol. Chem. 177 : 751
Doumas, B.T., (1975) Clin Chem. 21 : 1159

Programming on	CORALYZER 100/200
Item	T PROTEIN
Full Name	TOTAL PROTEIN
Test Method	End Point
Base Information	
Unit	g/dl
Filter	546 nm
Sub. Filter	670 nm
Decimal	xx.xx
High pollute	No
Reagent Blank	
Blank Medium	Reagent
Blank Value	0
Blank Low	0
Blank High	0.3
Sample	
Sample Volume	6
Dilution Times	1
Range Setup	
Reagent	
Rgt. 1 Volume	300
Rgt. 2 Volume	0
Linearity	15
Read data for check	
Assistant Start	NONE
Assistant End	NONE
Range Low	0
Range High	2
Test Point Start	33
Test Point End	34
Standard	
Number of standard	1
Factor	1
Correct Factor	1
Standard Cup	User Defined
Conc.	See Calibrator

Manufactured by :
Coral Clinical Systems
A Division of Tulip Diagnostics (P) Ltd.
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