CORALYZER
System Pack

Albumin Kit

(BCG Method)

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

Summary
Albumin consists of approximately 60% of the total proteins in the body, the other major part being globulin. It is synthesized in the liver and maintains the osmotic pressure in blood. Albumin also helps in the transportation of drugs, hormones and enzymes. Elevated levels are rarely seen and are usually associated with dehydration. Decreased levels are seen in liver diseases (Hepatitis, Cirrhosis). Malnutrition, kidney disorders, increased fluid loss during extensive burns and decreased absorption in gastro-intestinal diseases.

Principle
Albumin binds with the dye Bromocresol Green in a buffered medium to form a green coloured complex. The intensity of the colour formed is directly proportional to the amount of albumin present in the sample.

Albumin + Bromocresol Green ⟶ Green Albumin BCG Complex

Normal reference values

Serum, Plasma (Albumin)	:	3.7	-	5.3 g/dl
Globulin	:	2.3	-	3.6 g/dl
A/G Ratio	:	1.0	-	2.3

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 : BCG Reagent	3 x 30 ml	9 x 30 ml

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

Storage / stability
BCG 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, EDTA plasma. Albumin is reported to be stable in the sample for 6 days at 2 - 8^{0}C.

Calibration
Calibrator is recommended for calibration of this assay.

Linearity
This procedure is linear upto 7 g/dl.

Note
Gross haemolysis, ampicillin and heparin interfere with the results. Elevated bilirubin and lipemic samples may have a slight effect on accuracy.

References
Doumas, B.T., Watson, W.A., (1971) Clin Chem. Acta 31 : 87

Programming on	CORALYZER 100/200
Item	ALBUMIN
Full Name	ALBUMIN
Test Method	End Point
Base Information	
Unit	g/dl
Filter	620 nm
Sub. Filter	670 nm
Decimal	xx.xx
High pollute	No
Reagent Blank	
Blank Medium	Reagent
Blank Value	0
Blank Low	0
Blank High	0.8
Sample	
Sample Volume	3
Dilution Times	1
Range Setup	
Reagent	
Rgt. 1 Volume	300
Rgt. 2 Volume	0
Linearity	7
Read data for check	
Assistant Start	NONE
Assistant End	NONE
Range Low	0
Range High	2
Test Point Start	17
Test Point End	18
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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