# BT 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** | **2 x 50 ml** | **4 x 50 ml** |
|---|---|---|
| **L1** : BCG Reagent | 2 x 50 ml | 4 x 50 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.

**Linearity**
The procedure is linear upto 7 g/dl.

**Calibration frequency**
The BT System Pack for Albumin must be calibrated every 24 hours. Users are requested to calibrate the BT System Pack for Albumin daily.

**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

**Mfd. by : Coral Clinical Systems**
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ALB1(BT)/0718/VER- 02

# BT SYSTEM PACK
# PROGRAMMING PARAMETERS FOR ALBUMIN

| Single reagent application | | SERUM PARAMETERS | | URINE PARAMETERS | |
|---|---|---|---|---|---|
| Code for BAR_CODE | User Defined | Name | ALBUMIN | Name | |
| Test Methodology | BCG | Sample | 1.8 | Sample | 3 |
| Method | End Point | Pre-Dilution | 1 | Pre-Dilution | 1 |
| Kind of Process | Linear | **Dilution** | | **Dilution** | |
| Filters | 630 / 700 | Factor | 2 | Factor | 1 |
| Reaction Direction | Increasing | Limit Test (Conc.) | 7 | Limit Test (Conc.) | |
| Reagent #1(µl) | 270 | Initial ABS (mABS) | 0 | Initial ABS (mABS) | |
| Reagent #2 (µl) | 0 | Final ABS (mABS) | 3000 | Final ABS (mABS) | |
| Sample Starter | Inactive | Max ABS Delta (mABS) | 500 | Max ABS Delta (mABS) | |
| Delay Time (sec) | 0 | Check Prozona (mABS) | Inactive | Check Prozona (mABS) | Inactive |
| Incubation Time (sec) | 360 | Instrumental Factor | 0 | Instrumental Factor | 1 |
| Reading Time (sec) | 10 | Shift | 0 | Shift | 0 |
| Unit Serum | g/dl | Re-run Hyperactive | Active | Re-run Hyperactive | Inactive |
| Unit Urine | | Re-run Pathological | Inactive | Re-run Pathological | Inactive |
| Number of Needle Washes | 2 | Re-run out of curve "Above" | Inactive | Re-run out of curve "Above" | Inactive |
| Number of Cuvette Washes | 2 | Re-run out of curve "Below" | Inactive | Re-run out of curve "Below" | Inactive |
| Dynamic Blank | Inactive | **Normal Range** | | **Normal Range** | |
| Reagent Blank | Every run | Men | 3.7 - 5.3 | Men | |
| Reagent Limit (mABS) | 600 | Women | 3.7 - 5.3 | Women | |
| Curves Acceptance (%) | 100 | Children | | Children | |