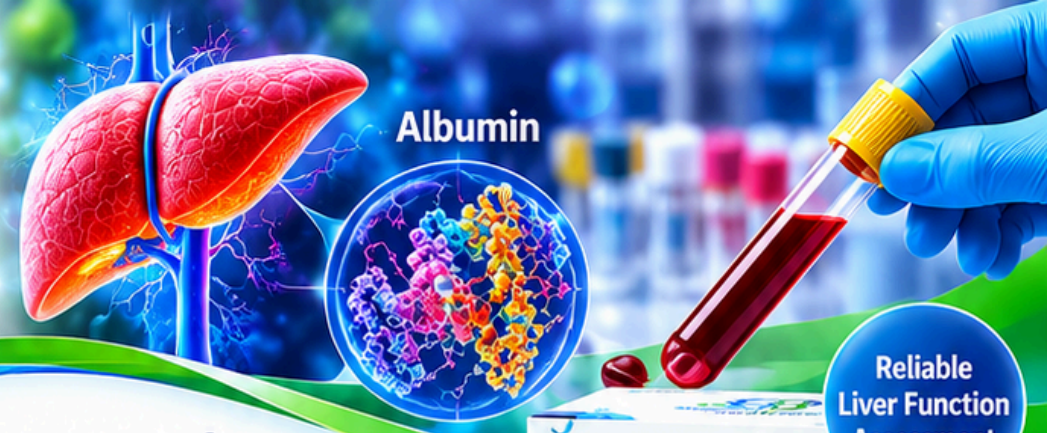
BIOBOON BIOTECH LLC

*Innovative Diagnostics for a Healthier Tomorrow*




# Albumin Test Kit

## Bromocresol Green Method

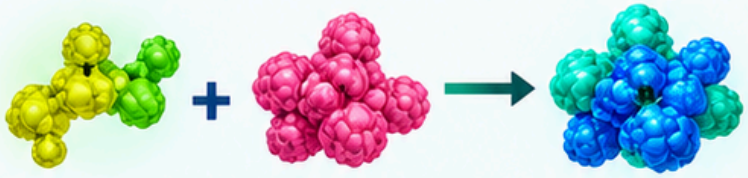
Quantitative determination of albumin in serum / plasma.
Only for In Vitro Diagnostic use.




- **Accurate and Reliable Results**
- **Simple End Point Assay**
- **Suitable for Serum / Plasma**
- **Useful for Liver & Kidney Function Assessment**

## PRINCIPLE

Albumin in the presence of bromocresol green (BCG) at a slightly acidic pH, produces a colour change of the indicator from yellow-green to green-blue. The intensity of the color formed is proportional to the albumin concentration in the sample.



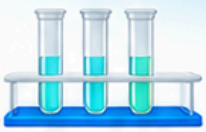
**Bromocresol Green** (BCG) (Yellow-Green) + **Albumin** (in Sample) → **Albumin - BCG Complex** (Green-Blue) **(620 nm)**

## KEY PARAMETERS

| | |
|---|---|
| Wavelength | 620 nm |
| Cuvette | 1 cm light path |
| Reaction Temperature | Room Temperature (18 – 28°C) |
| Measurement | Against Reagent Blank |
| Reaction Type | End Point |
| Reaction Direction | Increasing |
| Sample Volume | 5 µL |
| Reagent Volume | 1000 µL |
| Incubation | 5 minutes |
| Linearity | 8.0 g/dL |
| Blank Abs. Limit | < 0.200 |
| Low Normal | 3.5 g/dL |
| High Normal | 5.2 g/dL |
| Detection Limit | 4 IU/L |

## ASSAY PROCEDURE (MANUAL METHOD)

**1**



Pipette into test tubes

| | BLANK | STD | SAMPLE |
|---|---|---|---|
| Sample | - | - | 5 µL |
| Standard | - | 5 µL | - |
| Reagent | 1000 µL | 1000 µL | 1000 µL |

**2**



Mix well and incubate for 5 minutes at room temperature (18 – 28°C).

**3**



Measure the absorbance of the Sample (Abs. S) against the reagent blank at 620 nm.

## REFERENCE VALUES

| | |
|---|---|
| Serum / Plasma (Albumin) | 3.5 – 5.2 g/dL |
| Globulin | 2.3 – 3.6 g/dL |
| A/G Ratio | 1.0 – 2.3 |

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