ALBUMIN-BCG
BROMCRESOL GREEN METHOD

**Principle:**
Colorimetric determination of serum albumin using bromcresol green (BCG) at pH 4.2. Serum Albumin in the presence of Bromcresol Green at a slightly acid pH produces a colour change from yellow-green to green-blue.

**Reagent Concentration:**
Reagent: Bromcresol Green pH 4.2 50mmol/L
Standard: Albumin Solution 5 g/dl

**Preparation and Stability:**
All reagents are ready to use. The reagent is stable at +2 to +8 °C up to the date of expiration specified. Avoid direct sunlight.

**Samples:**
Serum or plasma collected in heparin.

**Procedure:**
Wavelength: 630nm, Hg 623 (620-640nm)
Temperature: +20 to +37°C
Cuvette: 1 cm light path
Zero adjustment: Reagent blank

<table>
<thead>
<tr>
<th>Sample</th>
<th>Blank</th>
<th>Standard</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample</td>
<td>---</td>
<td>---</td>
<td>10µl</td>
</tr>
<tr>
<td>Standard/R4</td>
<td>---</td>
<td>10µl</td>
<td>---</td>
</tr>
<tr>
<td>Serum or Plasma</td>
<td>2000µl</td>
<td>2000µl</td>
<td>2000µl</td>
</tr>
</tbody>
</table>

Mix well and measure after 10 minutes. Read results against reagent blank. The colour is stable for 60 minutes.

**Calculation:**

**By Standard:**

? A sample

---------- x standard conc g/dl. = Albumin in g/dl

? A standard Standard conc. Ref. To the standardisation

**Linearity:**
The method is linear up to 6g/dl. In case of higher results, dilute sample 1:2 with saline solution and repeat test. Multiply result by 2.

**Normal Values:**
Serum: 3.5-5.0 g/dl
Adults: 3.5-5.0 g/dl

**Quality Control:**
For accuracy and reproducibility control:- Assayed Multi-Sera Normal and Elevated.
For reproducibility control:- Multi-Sera Low, Normal and Elevated.

**Presentation:**
#ALB0120. 2 x 125ml, 250 tests
Reagent 2x125ml.
Standard 1 x 5ml.

**Safety precautions:**
For in vitro diagnostic use only. Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents.

Health and Safety data sheets are available on request.

**Literature:**