

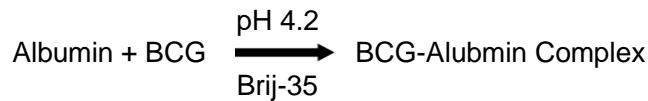
Albumin

Intended Use

For **IN VITRO** quantitative determination of **Albumin** in serum or plasma using manual or automated applications.

Method Principle

BCG dye at a pH of 4.2 and in the presence of a non-ionic surfactant Brij-35 specifically binds albumin to form a colored BCG-Albumin complex with a maximum absorbance at 630nm. The increase in absorbance is directly proportional to the Albumin concentration present in the sample.



Method Performance Characteristics

Sensitivity: 0.140 – 0.180 absorbance units per g/dL.

Linear Range: 0 – 6 g/dL

Precision: Within-run and day-to-day precision is summarized below.

Albumin	Within-Run Precision		Day-to-Day Precision	
	SD	CV	SD	CV
MEAN				
g/dL	g/dL	%	g/dL	%
1.2	0.04	3.50	0.05	4.30
3.4	0.05	1.40	0.07	2.00
5.6	0.06	1.10	0.06	1.00

Correlation

A comparison of this method using an automated analyzer and a reference method based upon the BCG reaction resulted in the following regression statistics.

Correlation Data	
Parameter	Data Observed
N	197
Range	1.6-5.2 g/dL
Regression	$Y = 1.039x - 0.12$
Correlation	$r = 0.999$
$S_{y,x}$	0.09