

Aldosterone

Method:	Enzyme-Linked Immunoassay (ELISA)
Kit Manufacturer:	IBL International Hamburg, Germany
Description:	The steroid hormone aldosterone is a potent mineral corticoid that is produced by the zona glomerulosa of the adrenal cortex in the adrenal gland. The synthesis and release are controlled by the renin-angiotensin aldosterone system (RAAS), as well as by plasma potassium concentration, the pituitary peptide ACTH, and by the blood pressure via pressure sensitive baroreceptors in the vessel walls of nearly all large arteries of the body. Aldosterone binds to mineralocorticoid receptors (MR) and triggers the transcription of hormoneresponsive genes. In consequence, aldosterone increases the blood pressure by reabsorption of sodium, and water from the distal tubules of the kidney into the blood, secretion of potassium into the urine, and elevation of circulating blood volume.

Collection and Performance Characteristics

Tube type:	Preferred: Serum (SST) Alternate: Plasma
Minimum Volume:	0.3 mL Avoid repeated freeze-thaw cycles. Store at -80°C until analysis is performed
Lowest Reportable Value:	2.0 pg/mL
Dynamic range:	5.7 - 1000 pg/mL
Precision:	Intra-Assay variation is: 5.6 – 9.7% Inter-Assay Variation is: 8.6 – 9.4%
Reference Range:	Unknown