



Laboratory Service Manual

Lab Dept: Chemistry

Test Name: ALDOSTERONE

General Information

Lab Order Codes: BALD

Synonyms: Aldosterone, Blood

CPT Codes: 82088 - Aldosterone

Test Includes: N/A

Logistics

Test Indications: The principal use for aldosterone measurements is in the diagnosis of primary hyperaldosteronism, which is most commonly caused by a specific type of adrenal adenoma.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Esoterix Inc. (Test# 500014)

Phone Numbers:

Minneapolis: 612-813-6280

Saint Paul: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 3 - 6 days, test is performed Monday and Thursday

Special Instructions: A random measurement of aldosterone is of no diagnostic utility unless plasma renin activity is determined simultaneously.

Specimen

Specimen Type: Whole blood

Container: Red top (plain, no gel) tube

Draw Volume: 3.0 mL (Minimum:1.5 mL, does not allow for repeat analysis) blood

Processed Volume: 1.0 mL (Minimum: 0.5 mL) serum



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| Collection: | Routine venipuncture |
| Special Processing: | Lab Staff: Centrifuge specimen within 1 hour of collection, remove serum aliquot. Store and ship frozen in plastic vial. Forward promptly. |
| Patient Preparation: | No recent radioactive scans or other radioactivity. Diuretics, antihypertensive drugs, cyclic progestogens, estrogens, and licorice should be terminated 2-4 weeks before testing. Patient should be on a normal sodium diet for 2-4 weeks (135 mmol or 3 g sodium/day). Supine sample should be drawn early, before the inpatient arises. If an upright sample is indicated, patient should have been sitting up for 2 hours or more. Replacement of potassium deficit is recommended before samples for aldosterone are taken. |
| Sample Rejection: | N/A |

Interpretive

Reference Range

Premature Infants:



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|--|-------------------------|
| 26 - 28 weeks, day 4: | 5 - 635 ng/dL (supine) |
| 31 - 35 weeks, day 4: | 19 - 141 ng/dL (supine) |
| Full-Term Infants: | |
| 3 days: | 7 - 184 ng/dL (supine) |
| 1 week: | 5 - 175 ng/dL (supine) |
| 1 - 12 months: | 5 - 90 ng/dL (supine) |
| Children: | |
| 1 - 2 years: | 7 - 54 ng/dL (supine) |
| 2 - 10 years: | |
| supine: | 3 - 35 ng/dL |
| upright: | 5 - 80 ng/dL |
| 10 - 15 years: | |
| supine: | 2 - 22 ng/dL |
| upright: | 4 - 48 ng/dL |
| Adults: | |
| supine: | 3 - 16 ng/dL |
| upright: | 7 - 30 ng/dL |
| <p>Note: Values are based on early morning specimens from subjects on ad lib sodium intake. Diurnal variations and values in pediatric patients on different sodium diets are currently unavailable.</p> | |

Critical Values:

Ratio of plasma aldosterone to renin activity >50 is significant.

Limitations:

Decreased perfusion of the kidneys leads to increased aldosterone and renin. Aldosterone may be falsely elevated in chronic renal failure when assayed by direct RIA.

Methodology:

RIA after selective solvent extraction



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Contraindications:

Hypokalemia caused by thiazide diuretics can resemble primary aldosteronism.

References:

Esoterix Web Page www.esoterix.com

Esoterix, Inc. "Expected Value & S.I. Unit Conversion Table" Fifth Edition