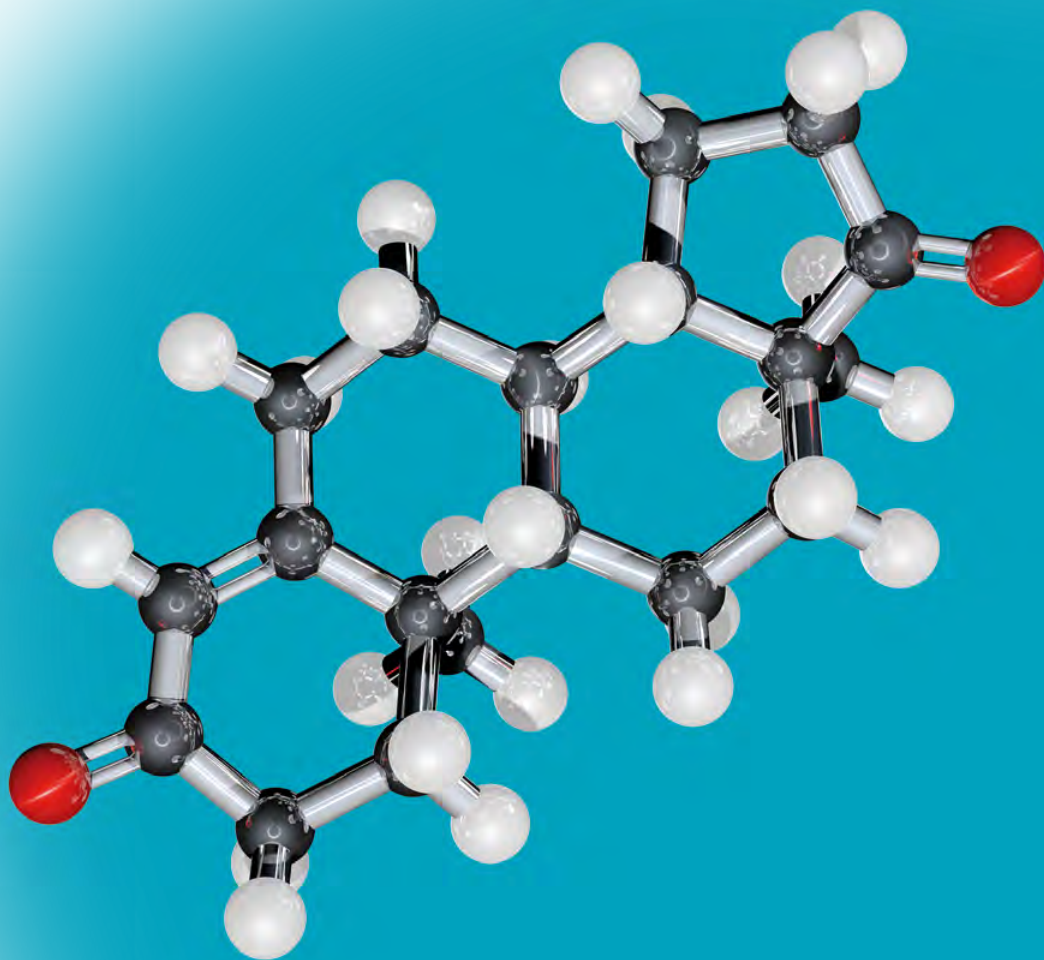


Fertility

LIAISON[®] Androstenedione

The fully automated specialty assay to evaluate adrenal and gonadal functionality



DiaSorin

The Diagnostic Specialist

FOR OUTSIDE THE US ONLY

Fertility

LIAISON® Androstenedione

Androstenedione, also known as 4-androstenedione, is a 19-carbon steroid hormone produced in the adrenal glands and the gonads (testes as well as ovaries) as an intermediate step in the biochemical pathway that produces the androgen testosterone and the estrogens estrone and estradiol. It is a major adrenal androgen in serum.⁽¹⁾

Elevated androstenedione levels can cause symptoms or signs of hyperandrogenism or virilization in women. Symptoms of this may include excess body and facial hair growth (called hirsutism), stopping of periods (amenorrhoea), worsening acne and changes to the genitalia.⁽²⁾

Androstenedione is observed increased in pathologies such as Polycystic Ovarian Syndrome (PCOS), Congenital Adrenal Hyperplasia (CAH) caused by 21-hydroxylase deficiency, Adrenal tumors, and Cushing disease.

Expected values

Population (United States)	Age (specimens)	Median (ng/mL)	Observed Range (ng/mL) 2.5 th to 97.5 th Percentile
Females	2-6 (251)	0.10	0.00 – 0.34
	7-11 (252)	0.35	0.12 – 2.41
	12-16 (252)	1.62	0.42 – 3.41
	17-21 (248)	2.01	0.70 – 4.31
	Adults Premenopausal (171)	1.60	0.4 – 3.4
	Adults Postmenopausal (123)	0.70	0.1– 2.1
Males	2-6 (252)	0.11	0.02 – 0.29
	7-11 (251)	0.23	0.07 – 0.74
	12-16 (252)	0.84	0.25 – 2.21
	17-21 (251)	1.28	0.44 – 2.65
	Adults (177)	1.80	0.5– 3.5

It is recommended that each laboratory establish its own range of expected values for the population taken into consideration.

SPECIFIC

- 100% specific to Androstenedione
- Low cross-reactivity with other steroid hormones (< 0.5%)

RELIABLE

- LOD = 0.24 ng/mL | LOQ = 0.30 ng/mL
- Precision (%CV): intrarun max 4%, interrune max 12%
- Excellent linearity by recovery: 90%-103%
- Dilution linearity: R²=0.99

FLEXIBLE

- Wide measurement range (0.24 – 10 ng/mL)
- 100 test integral: random access, no test waste
- Assessment both in serum and plasma

FAST

- Time to first result: 20 min
- Barcode id and RFID tag
- Continuous sample loading

LIAISON® Androstenedione	(code 318870)
LIAISON® Androstenedione Control	(code 318871)
LIAISON® Endocrinology Diluent	(code 319133)

References

- 1 Wallach's Interpretation of Diagnostic Tests: Pathways to Arriving at a Clinical Diagnosis, Lippincott Williams & Wilkins, 10th Ed., 2015
- 2 Lizneva D, Gavrilova-Jordan L, Walker W, Azziz F. Androgen excess: investigations and management. *Best Pract Res Clin Obstet Gynaecol.* 2016 May 19

AVAILABLE ON **LIAISON®** SYSTEMS



The Diagnostic Specialist

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