



Technology Beyond Perfection

For the first time in India, Dr Lal PathLabs introduces an advanced technology, **LC MS/MS** for **Multiteroid profile**, hence taking another step towards perfection in diagnosis.



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*Price, specimen details, method, reporting time may change.
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Dr Lal PathLabs is using the latest technology of LC MS/MS for the Hormone profiling

LC MS/MS - Advantages vis-à-vis Immunoassays

Challenges in Immunoassays	LC MS/MS Technology
Cross-reactivity with antibodies	No cross-reactivity with similar metabolites
Inconsistent analysis for female patients and children	Simultaneous analysis of all different steroids (Multisteroid analysis)
At low level inaccurate detection	- High specificity - Improved accuracy (Especially at low concentration)

Immunoassay for Testosterone in Women and Pediatric Population

For every available testosterone immunoassay kit studied and compared (10 kits studied), values are in error-by a factor of 2 on average and in some cases by a factor of almost 5.

Clinical Chemistry 49 (8), 1250-1251, 2003

A Revolution in the diagnosis of Adrenal Disorders:

Rapid simultaneous quantitation of several serum steroids by means of Tandem Mass Spectrometry (MSMS)

Rapid Multisteroid assays in a single run using MS/MS allow:-

- Confirming or rejecting the diagnosis of adrenal tumour or CAH within short time
- Avoids unnecessary therapy
- Shortens the delay of treatment starting
- Cuts the investigation costs

Paper presented at The Endocrine Society's 94th Annual Meeting and Expo, June 23-26, 2012, Houston-Tx, Presentation Number: MON-482

Key Steroid Profiles by LC MS/MS

G192	STERIOD PANEL FOR POLYCYSTIC OVARIAN SYNDROME (PCOS)
G193	STERIOD PANEL FOR PCOS/CAH DIFFERENTIATION
G190	STERIOD PANEL, 21- HYDROXYLASE DEFICIENCY/STRESS DIFFERENTIATION
G191	STERIOD PANEL FOR CONGENITAL ADRENAL HYPERPLASIA (CAH)
G201	HYPOGONADISM PANEL, MALES
G202	HYPOGONADISM PANEL, FEMALES
G195	STERIOD PROFILE 1- Aldosterone*Corticosterone* Cortisol*Cortisone*11-Deoxycortisol
G196	STERIOD PROFILE 2-*Androstenedione *DHEA*DHEAS* Dihydrotestosterone (DHT)*Estradiol *17- α -Hydroxyprogesterone *Progesterone*Testosterone.Total
G197	STERIOD PROFILE 3- (includes 13 steroids of Steroid Profile 1 and Steroid Profile 2)
G199	CORTICOSTERONE
G198	CORTISONE, SERUM
G200	CORTISONE: CORTISOL RATIO
G194	STERIOD PANEL FOR PREMATURE ADRENARCHE

Specimen:

2 mL (1 mL min.) serum from **1 Red Top (No Additive) tube**. Ship refrigerated or frozen. Diurnal variation present; take sample between 8 - 10 am or 4-6 pm. Specify time and date on specimen container and test request form. Ship refrigerated or frozen.