Description

The Endocrine and Metabolic Research Laboratory supports clinical and translational investigators in many aspects of research through expertise in analytical testing and development of new methods. The Endocrine and Metabolic Research Laboratory is licensed by the State of California and holds CLIA certification. The laboratory participates in CAP Proficiency Test Program. The laboratory staff has over 30 years’ experience in such diverse fields as hormonal and metabolic parameters analyses and clinical chemistry. It has provided services to a number of other CTSA centers (UCI, University of New Mexico) as well as research centers outside of the CTSA domain. This laboratory has experience in serving as a bioanalytical laboratory and FDA audits.

Core Laboratory Resources

- Liquid Chromatographic Tandem Mass Spectrometry instruments (LC-MS/MS API 5000 and API 5500)
- Cobas platform for immuno assays
- Gamma and beta counters
- Spectrophotometer
- Fluorometer
- Plate reader

Services Available to All Investigators

- **Sample Analysis**: Over forty different procedures are offered through the Endocrine and Metabolic Research Laboratory utilizing a variety of techniques including radioimmunoassay, fluoroimmunoassay, fluorometry and LC-MS/MS. A full listing of all methods can be obtained through Endocrine and Metabolic Research Laboratory, or via the UCLA CTSI web site. Semen analyses and special andrological testing are available in the Andrology laboratory.

- **Consultation Services**: The Lab Manager, Mr. Vignesh Iyer is available to help investigators design and initiate protocols using the most relevant procedures available and ensure that all laboratory data are reported with confidentiality and accuracy. The laboratory is networked with other CTSA Laboratories providing investigators with a wide range of testing capabilities. Mr. Iyer provides specialized consultation on semen analyses and centralized service for sperm morphology analyses.

Staffing

The laboratory staff is highly qualified and includes three licensed Clinical Laboratory Scientists and three research associates.

The Endocrine and Metabolic Research Laboratory works on a “fee-for-service” platform. The following table lists the analytes. Price quotes will depend on the quantity of samples. Contact Vignesh Iyer for further information.

<table>
<thead>
<tr>
<th>TEST</th>
<th>TEST</th>
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<tbody>
<tr>
<td>Insulin</td>
<td>Salivary Cortisol</td>
</tr>
<tr>
<td>Proinsulin</td>
<td>DNA/extraction</td>
</tr>
<tr>
<td>Cortisol</td>
<td>Free T4</td>
</tr>
<tr>
<td>ACTH</td>
<td>SHBG</td>
</tr>
<tr>
<td>C-peptide</td>
<td>Leptin</td>
</tr>
<tr>
<td>IGFI</td>
<td>Adiponectin</td>
</tr>
<tr>
<td>Glucagon</td>
<td>Testosterone (RIA) (for non-human samples only)</td>
</tr>
<tr>
<td>LH</td>
<td>Total Testosterone (LC-MS/MS)</td>
</tr>
<tr>
<td>FSH</td>
<td>Dihydrotestosterone (LC-MS/MS)</td>
</tr>
<tr>
<td>GH</td>
<td>Estradiol (LC-MS/MS)</td>
</tr>
</tbody>
</table>
TSH Estrone (LC-MS/MS)
Total T3 Progesterone (LC-MS/MS)
T4 Androstenedione (LC-MS/MS)
FFA Cortisol (LC-MS/MS)
IL6 11-deoxycortisol (LC-MS/MS)
IL1B DHEA (LC-MS/MS)
IL16 17OH-Progesterone (LC-MS/MS)
CRP Free Testosterone by equilibrium
dialysis
TNFa  
Routine semen analyses  Any other analytes not listed, consult Lab Manager

Sperm function test (by request)

Other assays please contact Vignesh Iyer (vignesh.iyer@labiomed.org) or Marianne Lajoie (lajoie@labiomed.org)

Andrology laboratory tests and serum androgens contact Vignesh Iyer (vignesh.iyer@labiomed.org)

Contact Information:
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Fax: 310-222-1885