The Dimension Vista® LOCI® Total Testosterone assay is an in vitro diagnostic test for the quantitative measurement of total testosterone in human serum and plasma. Measurements of testosterone are used in the diagnosis and treatment of disorders involving the male sex hormones (androgens), including:

- Primary and secondary hypogonadism
- Delayed or precocious puberty
- Impotence in males

Testosterone is an androgenic steroid hormone synthesized primarily by male testicular cells. Small amounts of testosterone are made by ovaries in females and the adrenal glands of both sexes. Ninety-seven to ninety-eight percent of testosterone circulates bound (inactive) to albumin, sex hormone binding globulin (SHBG), and to non-proteins.

In males, testosterone influences development of sex organs and secondary sexual characteristics. Elevated testosterone levels in males may result from testicular (primary) or pituitary (secondary) hyperfunction. In females, elevated testosterone can be an indication of polycystic ovary syndrome (PCOS) or ovarian tumors.

The addition of LOCI Total Testosterone complements the fertility assays on Dimension Vista® systems, including FSH, LH, estradiol, hCG, progesterone, and prolactin. These LOCI fertility methods offer your laboratory the following benefits:

- Gain confidence in results with high-sensitivity, and excellent precision
- Increase flexibility with multiple sample types and minimal sample volume
- Reduce dilutions with a wide assay range
- Interpret pediatric test results properly using newly established pediatric reference ranges
- Eliminate split sampling by running all testing from a single tube
Dimension Vista LOCI Total Testosterone Assay Specifications

The Dimension Vista LOCI fertility assays help you consolidate your fertility and chemistry testing onto one system, leading to increased workflow efficiency.

<table>
<thead>
<tr>
<th>Sample Type</th>
<th>Sample Volume</th>
<th>Assay Range</th>
<th>Assay Sensitivity</th>
<th>Calibration Interval</th>
<th>Open Well Stability</th>
<th>Onboard Stability</th>
<th>Incubation Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum or plasma (EDTA, lithium and sodium heparin)</td>
<td>10 µL</td>
<td>8.0–1000 ng/dL (0.278–34.7 nmol/L)</td>
<td>LoD: 5.0 ng/dL LoQ: 8.0 ng/dL</td>
<td>14 days</td>
<td>4 days</td>
<td>30 days (sealed wells)</td>
<td>21 minutes</td>
</tr>
</tbody>
</table>

Method Comparison

The Dimension Vista System Total Testosterone assay vs. ID-LC/MS/MS.

![Graph showing comparison between Dimension Vista System Total Testosterone and ID-LC/MS/MS assay results.]

Ordering Information

<table>
<thead>
<tr>
<th>SMN No.</th>
<th>Catalog No.</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>10488399</td>
<td>K6465</td>
<td>LOCI TTST Flex® Reagent Cartridge 20 tests/well 80 tests/flex 320 tests/carton (4 flexes)</td>
</tr>
<tr>
<td>10712611</td>
<td>KC638</td>
<td>TTST Calibrator (2 vials x 6 levels/carton, 1.0 mL/vial)</td>
</tr>
<tr>
<td>10483586</td>
<td>KD694</td>
<td>MULTI 2 SDIL (6 x 2.5 mL/vial)</td>
</tr>
</tbody>
</table>

References:

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Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

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