

# Exceptional diagnostics for reproductive disease state management.

## Access® Estradiol



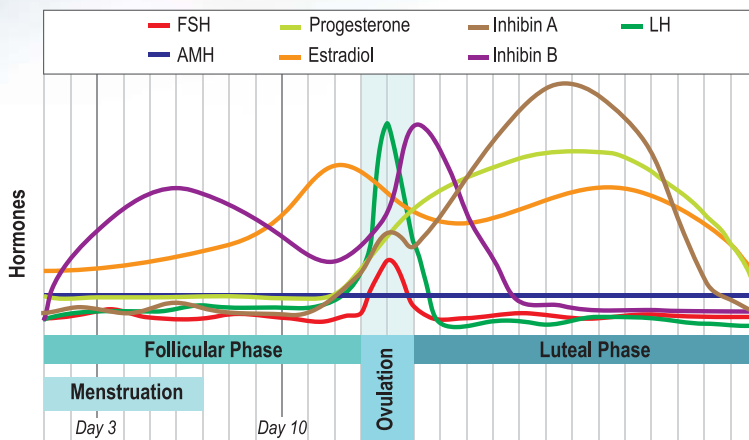
Chemistry  
Lab Automation  
Information Systems  
Molecular Diagnostics  
**Immunodiagnosics**  
Centrifugation  
**Disease Management**  
Hematology  
Hemostasis  
Flow Cytometry  
**Primary Care**

Estradiol (E2) is one of the natural estrogens produced by humans. It is utilized to monitor ovulatory status as it reflects follicular maturation.<sup>1,2</sup> Not only is E2 useful for female reproductive health, but high levels in males can be indicative of feminizing syndromes, like gynecomastia.<sup>3</sup>

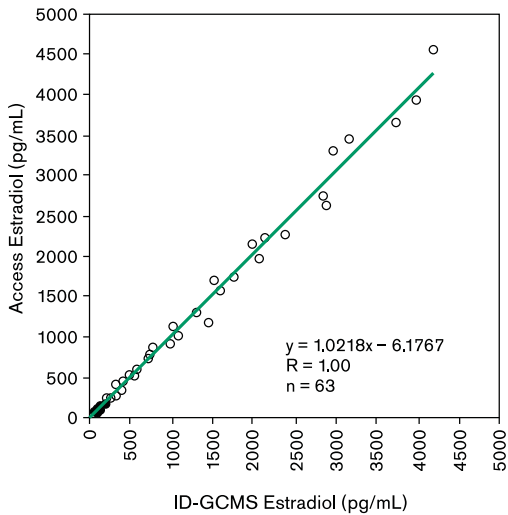
Access Estradiol offers:

- Extensive dynamic range (20 - 4800 pg/mL [73 - 17621 pmol/L])-reduces the need for dilution and saves time.
- 30 minute time to first result-reduces wait time for physicians and patients.
- Serum or heparinized plasma are compatible with the assay which provides testing flexibility.
- Method standardization to the international ID-GCMS reference method-ensures global harmonization.

### Fertility Hormone Activity in Cycling Females



## Access Estradiol vs International Reference (ID-GCMS)



### Characteristics

Sample Type/Size	Serum or plasma (heparin)/35 µL
Time to First Result	30 minutes
Analytical Sensitivity	20 pg/mL (73 pmol/L)
Approximate Calibrator Levels	0, 106, 570, 1800, 3100 and 4800 pg/mL (389, 2092, 6608, 11380 and 17621 pmol/L)
Expected Range	20 - 4800 pg/mL (73 - 17621 pmol/L)
Open Pack Stability	14 days
Calibration Stability	14 days
Precision	≤ 12% at concentrations ≥ 120 pg/mL (440 pmol/L)

### Ordering Information

Reagent Kit	33540
Calibrators	33545
Diluent (S0)	33546

### References

- Carr BR. Disorders of the ovary and female reproductive tract. In: Williams Textbook of Endocrinology, 8th ed. Philadelphia: W.B. Saunders Co.; 1995. p. 733-98.
- Hall, JE. Polycystic ovarian disease as a neuroendocrine disorder of the female reproductive axis. In: Endocrinology and Metabolism Clinics of North America, Neuroendocrinology II. Philadelphia: W.B. Saunders Co., p. 75-92.
- Reyes-Fuentes A, Veldhuis JD. Neuroendocrine physiology of the normal male gonadal axis. In: Endocrinology and Metabolism Clinics of North America. Philadelphia: W.B. Saunders Co.; 1993. 22:93-124.

## Exceptional diagnostics for reproductive health management



## Access® Reproductive: A Menu that Matters

AFP (ONTD)	hLH	Progesterone	Testosterone
DHEA-S	Inhibin A	Prolactin	Total βhCG
Estradiol	PAPP-A*	SHBG*	Ultrasensitive Estradiol*
hFSH	PIGF (preeclampsia)*	sVEGF R1 (preeclampsia)*	Unconjugated Estriol

\*In development

Access reproductive solutions are part of a comprehensive assay menu features on Access and UniCel® Immunoassay Systems. To learn more, visit [www.beckmancoulter.com/reproductive](http://www.beckmancoulter.com/reproductive).



Australia, Gladesville (61) 2 9844 6000 Canada, Mississauga (1) 905 819 1234 China, Beijing (86) 10 6515 6028  
 Czech Republic, Prague (420) 272 01 73 32 Eastern Europe, Middle East, North Africa, South West Asia: Switzerland, Nyon (41) 22 365 3707  
 France, Villepinte (33) 1 49 90 90 00 Germany, Krefeld (49) 2151 33 35 Hong Kong (852) 2814 7431 India, Mumbai (91) 22 3080 5000  
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 Switzerland, Nyon (41) 0800 850 810 Taiwan, Taipei (886) 2 2378 3456 Turkey, Istanbul (90) 216 570 17 17 UK, High Wycombe (44) 01494 441181  
 USA, Brea, CA (1) 800 352 3433, (1) 714 993 5321