

# ACCESS SENSITIVE ESTRADIOL ASSAY—MAKING A DIFFERENCE IN REPRODUCTIVE HEALTH

Reproductive health issues can affect people of all ages so measuring hormone levels is key to addressing these concerns. Since estradiol—a common form of the estrogen hormone—is ordered to measure estradiol levels in all age populations, laboratories will immediately see the value of Access Sensitive Estradiol. Its strong focus on low-end precision and state-of-the-art sensitivity provide better operational efficiency, reduce costs and deliver quality results.

## Why choose Access Sensitive Estradiol—a state-of-the-art assay?

- › Strengthen your confidence in low-end results with state-of-the-art sensitivity
- › Create efficiencies and reduce costly dilutions with the broadest dynamic range that surpasses IVF hyper-response guidelines and allows measurements up to 5,200 pg/mL
- › Take advantage of the only estradiol assay in the market to offer a pediatric reference range
- › Ensure accurate patient results and proven correlation to GC-MS, the gold standard for estradiol testing

## Performance characteristics

A comparison of 135 values using the Access Sensitive Estradiol assay on an Access immunoassay system and mass spectrometry—including comparison to the ID/GC/MS reference measurement procedure (RMP) developed at Ghent University and an LC-MS method—gave the following statistical data. Analysis was performed using Passing-Bablok regression and Pearson's correlation, based on the CLSI EPO9-A3 guideline.

N	Range of Observations (pg/mL)	Intercept (pg/mL) [95% CI]	Slope [95% CI]	Correlation Coefficient (r)
135	15.7-4,838	-2.957 [-8.46-0.63]	0.98 [0.95-1.00]	0.99



## Why trust Beckman Coulter?

The new Access Sensitive Estradiol assay with state-of-the-art sensitivity and the broadest measuring range offers improved measurement for low levels of estradiol, such as those typically found in men, pediatric populations and postmenopausal women.

Beckman Coulter helps laboratories deliver quality results that make a difference in patients' reproductive health.

Parameter in pg/mL	Beckman Coulter Access Sensitive Estradiol <sup>1</sup>	Roche Estradiol III <sup>2</sup>	Siemens Enhanced Estradiol (eE2) <sup>3</sup>	Abbott ARCHITECT Estradiol <sup>4</sup>
LoB	≤10.0	3.0	7.4	Not Available
LoD	≤15.0	5.0	11.8	≤10.0 (analytical)
LoQ	≤19.0 (10.4-15.1 observed)	19.0 (25 at 30% Total Error) (12.7 observed)	19.0	≤25.0 (13.0-14.0 observed)
Upper reporting range	5,200	3,000	3,000	1,000

## References

1. Instructions for use: Beckman Coulter Access Sensitive Estradiol
2. Instructions for use: Roche III
3. Instructions for use: Siemens
4. Instructions for use: Abbott

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BR-79475-v2 WF#BR-93796

