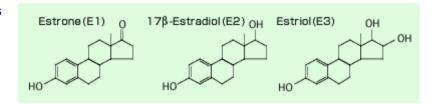


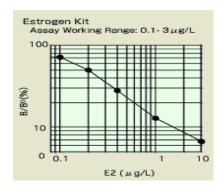
Estrogen (E1/E2/E3) ELISA Kit

- ES monoclonal antibody binds exclusively with E1, E2 and E3, and does not show cross-reaction with other chemicals of similar structures. A monoclonal antibody is uniform in quality, generating very little lot-to-lot variation.
- The quantitative analysis ranges from 0.1µg/L to 3µg/L (ppb).
- The ELISA measurement is highly reproducible; the coefficient of variation (CV) is mostly under 10%.
- The assay requires less amount of harmful solvent than instrument analyses.
- With ease of handling, the total time for measurement is only 2.5 hours.
- The kit, a 96-well microplate format, enables simultaneous measurement of multiple samples at more reasonable cost.

Chemical Structures of Targets



Standard Curves



Test Data

Recovery Test using River Water (n=4)

	ES ELISA Kit	
Unspiked		
Determination (ng/L)	12.4	
SD (%)	6.5	
Spiked with 2ng/L E2		
Determination (ng/L)	14.4	
SD (%)	9.2	
Recovery (%) (n=4)	100.0	

Comparison with LC/MS/MS

Comparison with LC/MS/MS

	E1+E2 (ng/L)	
Sample	LC/MS/MS	ES ELISA Kit
Α	2.08	3.75(1.8)
В	4.25	5.36(1.3)

Figures in parentheses indicate relative value to LC/MS/MS data.

Cross-reactivity Pattern

Estrogens

Compound	% Reactivity ES ELISA Kit
Estron (E1)	87.0
2-methoxv E1	<0.03
E1-3-sulfate	<0.03
17β-Estradiol (E2)	100.0
16-keto E2	118.0
2-methoxv E2	0.2
E2-17-alucronide	5.0
E2-3-alucronide	<0.03
E2-3-sulfate-17-dlucronide	0.5
Estriol (E3)	55.0
16-epi-E3	129.0
E3-16-alucronide	48.0

Other hormones

Compound	% Reactivity ES ELISA Kit
cis -Androsterone	<0.03
trans -Androsterone	<0.03
Cholesterol	<0.03
Dehvdroisoandrosterone	<0.03
5α-Dihvdroteststerone	<0.03
Hvdrocortisone	<0.03
Preanenolone	<0.03
Teststerone	< 0.03

Kit Format

	Kit Format	Comment
Microplate	1 plate (96 wells)& reagents	Needs a microplate reader (450nm) For multiple and simultaneous measurement
Tube	20 tubes& reagents	Needs 1 mL cuvette and a spectrophotometer(450nm) For limited number of samples

For research use only. Not for diagnostic use.

