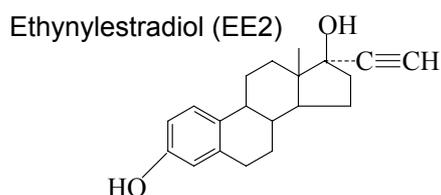


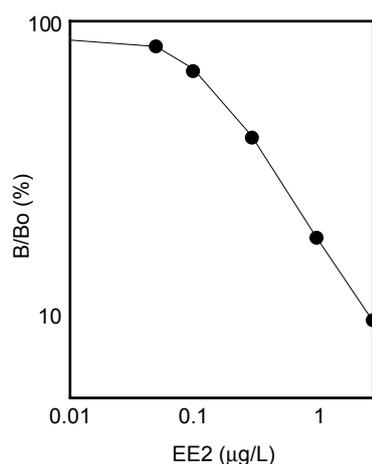
Ethinylestradiol (EE2) EIA kit

Estrogens and estrogen-like compounds released into the aquatic environment have been shown to interact with the hormonal system of wildlife and induce female-specific responses in male and juvenile organisms. Such endocrine disruption can result in adverse effects on sex ratio, fertility and behaviour.



The Ethinylestradiol (EE2) enzyme immunoassay (EIA) kit* specifically detects the synthetic estrogenic hormone ethinylestradiol. This hormone is one of the main ingredients in the contraceptive pill. EE2 can all be found abundantly in the aquatic environment, such as close to sewage treatment plants, and should be cautiously monitored.

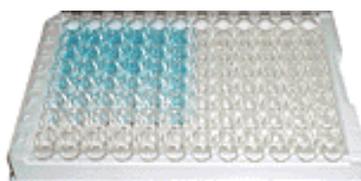
The analysis is based on a competitive reaction where enzyme-labelled standard EE2 competes with free EE2 in the sample for binding to a specific monoclonal antibody immobilised to the surface of the microtiter plate. The amount of labelled EE2 bound to the plate is determined by addition of a non-coloured substrate which is converted into a coloured product. The colour intensity is measured at 450 nm and is inversely proportional to the amount of EE2 in the sample. The assay is calibrated using a standard solution of EE2 supplied with the kit.



The Ethinylestradiol (EE2) EIA kit is suitable for analyses of water samples.

The assay is highly sensitive, simple and rapid to perform. The standard curve working range is 0.05-3 µg/L EE2. A simple solid phase extraction protocol is available for samples with very low concentrations of EE2.

The kit is available in microplate (96 wells) format.



*) *The Ethinylestradiol EIA kit is licensed from Tokiwa Chemical Industries, Ltd.*

Ethinylestradiol (EE2) ELISA KIT



Cross-reactivity pattern

<i>Compound</i>	<i>Reactivity (%)</i>
Ethinylestradiol (EE2)	100.0
Estrone (E1)	< 0.2
2-methoxy E1	< 0.2
17 β -Estradiol (E2)	< 0.2
16-keto E2	< 0.2
E2-17-glucuronide	< 0.2
E2-3-glucuronide	< 0.2
E2-3-sulfate-17-glucuronide	< 0.2
Estriol (E3)	< 0.2
16-epi-E3	< 0.2
E3-16-glucuronide	< 0.2

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