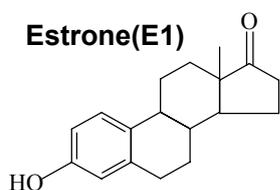


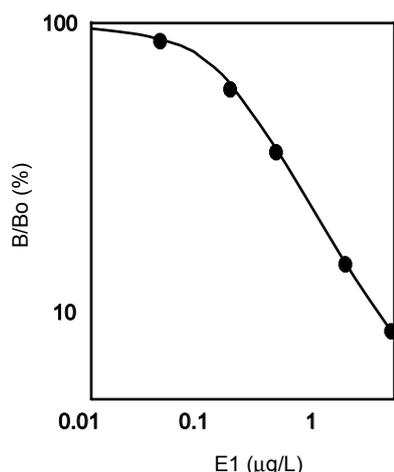
Estrone (E1) EIA kit

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 Estrone (E1) enzyme immunoassay (EIA) kit* specifically detects the estrogenic hormone estrone (E1). This hormone can be found in the blood stream of many different organisms, as well as abundantly in the aquatic environment, such as close to sewage treatment plants.

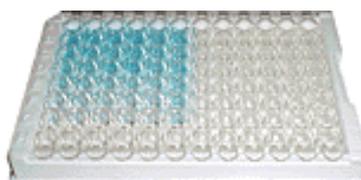
The analysis is based on a competitive reaction where enzyme-labelled standard E1 competes with free E1 in the sample for binding to a specific monoclonal antibody immobilised to the surface of microtiter plates. The amount of labelled E1 bound to the antibody is determined by addition of a non-coloured substrate which is converted into a coloured product. The colour intensity is measured at 450 nm and is inversely proportional to the amount of E1 in the sample. The assay is calibrated using a standard solution of E1 supplied with the kit.



Estrone (E1) 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 0.05-5 µg/L E1. A simple solid phase extraction protocol is available for samples with very low concentrations of E1.

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



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

Estrone(E1) ELISA KIT [新発売]**Cross-reactivity pattern**

<i>Compound</i>	<i>Reactivity (%)</i>
Estrone (E1)	100
2-methoxy E1	0.2
17 β -Estradiol (E2)	0.3
16-keto E2	0.2
E2-17-glucronide	< 0.1
E2-3- glucronide	< 0.1
E2-3-sulfate-17-glucronide	< 0.1
Estriol (E3)	< 0.1
16-epi-E3	< 0.1
E3-16-glucronide	< 0.1
Ethynyl E2	< 0.1

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