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ZEA | Zearalenone ELISA quantitation kit

Qty: AS20 4393

AS20 4393 | Reactivity: **ZEA** | **Zearalenone mycotoxin**

Price: 1019 €

Background: This ELISA assay utilizes the principle of competitive binding to measure the concentration of ZEA in analyzed samples. The ZEA (Zearalenone) has been pre-coated on the surface of the reaction wells. Samples containing an unknown amount of hormone, or standards, are mixed in the reaction well with a known amount of antibody to ZEA. During incubation, a competitive inhibition reaction occurs between the pre-coated ZEA and the hormone in the samples with the antibody specific to ZEA.
Unbound hormone and plant extract are washed out of the reaction wells. Addition of HRP-conjugated goat anti-rabbit IgG antibody will visualize binding between anti-ZEA antibodies and ZEA. Substrate solution is added to the wells and the color develops in opposite to the amount of ZEA in the sample or standards. Reaction is stopped and the intensity of the color is measured at 450 nm.

Zearalenone is a RAL and F-2 mycotoxin produced by some *Fusarium* and *Gibberella* species. It is a potent estrogenic metabolite and is the primary toxin causing infertility, abortion or other breeding problems, especially in swine. Zearalenone is found in a many cereal crops, such as maize, barley, oats, wheat, rice, sorghum as well as in bread all over the world.

Reaction wells: 96 wells

Assay development time: 1-5 hours

Sensitivity: 0.15 µg/kg (0.1 ppb)

Detection ragne: 0.15 µg/kg~4.05 µg/kg

Sample volume: 50 µl

Detection wavelength: 450 nm

Intra-assay precision (within an assay)**:** CV%<10%

Intra-assay precision (between assays)**:** CV%<10%

Storage: 2-8°C (unopend kit) or 2-8°C for one month (opened kit)

Manual in Pdf

Sample type: Feed, grain, *Glycine max* (fresh samples)