

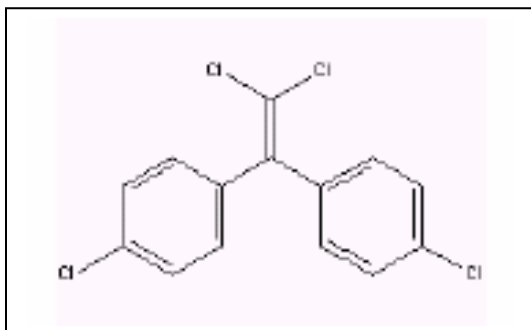
ELISA Kit for Agricultural Pollutants

DDE/DDT ELISA Kit

(Microtiter Plate Format)

- ◇ The antibody binds p,p' DDE and related organochlorine compounds (DDT, DDD) and does not cross-react with other non-related agricultural compounds.
- ◇ The assay range is between 1.25 ppb and 75.0 ppb. This assay allows the determination of DDE and related organochlorines in a range of environmental samples (water, soil, sediment, fish plasma, etc.).
- ◇ Direct sample. No time-consuming sample extraction or the use of hazardous organic solvents.
- ◇ Total time for measurement is less than 2 hours.
- ◇ The kit (96 Tests), a microtiter plate format, enables the simultaneous measurement of multiple samples at a reasonable cost.

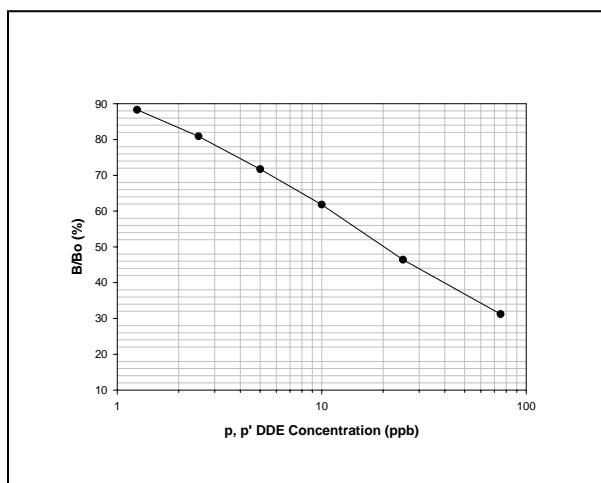
Chemical Structure (p,p' DDE)



DDT was the first of the chlorinated insecticides, it was originally prepared in 1873. The use of DDT increased enormously after WW II because of its effectiveness against mosquitoes and lice. DDT and its main metabolite DDE, have been found to be toxic to animals, cause birth defects and it's known to be an endocrine disruptor (EDC). The use of DDT has been banned in the US since 1973, although it's still used in other parts of the world. DDT is environmentally stable and is not metabolized very rapidly by animals, it's deposited and stored in fatty tissue, therefore, there's the potential for biomagnification in food chains.

This ELISA test kit detects DDE/DDT and related metabolites in environment samples at the ppb levels.

DDE Standard Curve



Samples containing DDDE within the dynamic range (1.25-75.0 ppb) can be directly tested in the assay after filtration (if necessary).



Basic Test procedure

- Add 25 uL of sample, 100 uL of antibody solution.
- Incubate for 60 minutes.
- Wash.
- Add 100 uL of enzyme conjugate and incubate for 30 minutes
- Wash
- Add 100 uL of color solution.
- Incubate 20 minutes.
- Stop the reaction and read color at 450 nm. Quantitate results.

Cross-reactivity Pattern

Cross-reactivity of the Abraxis DDE/DDT ELISA expressed as (%).

Compound	Cross-Reactivity (%)
p, p' DDE	100
p, p' DDD	46
o, p' DDD	16
p, p' DDT	10
o, p' DDE	3.2

Kit Format

DDE/DDT ELISA Kit (Microtiter plate format, 96T) PN 540041

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