

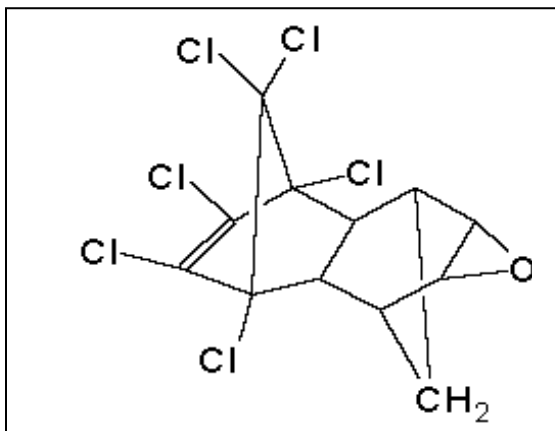
ELISA Kit for Agricultural Pollutants

Cyclodienes ELISA Kit

(Microtiter Plate Format)

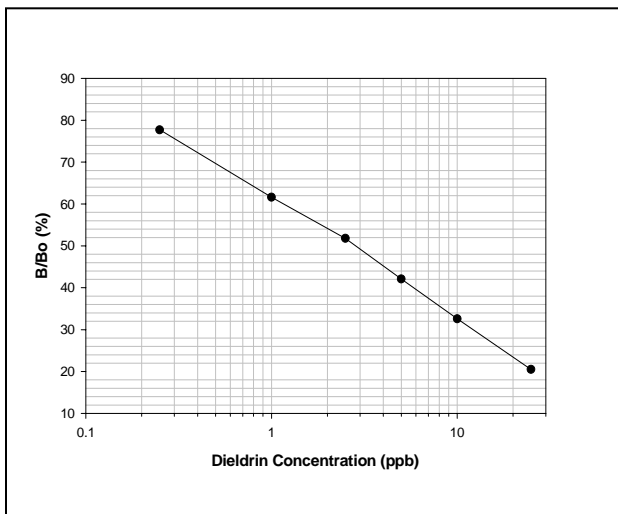
- ◇ The antibody binds cyclodienes compounds (aldrin, dieldrin, endosulfan, heptachlor, chlordane, toxaphene) and does not cross-react with other non-related agricultural compounds.
- ◇ The assay range is between 0.25 ppb and 25.0 ppb. This assay allows the determination of cyclodienes in a range of 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 (Dieldrin)



Cyclodienes are chlorinated insecticides that have been used widely for controlling soil insects. Aldrin, which readily breaks down to dieldrin in living systems is used to control soil pests (termites) on corn and potato crops. Dieldrin is used on fruit, soil, seeds and has been used to control vectors of tropical diseases. Aldrin and dieldrin have been banned in most industrialized countries but it's still used in some. Cyclodienes are environmentally stable and are not metabolized very rapidly by animals, they're deposited and stored in fatty tissue, therefore, there's the potential for biomagnification in food chains. This ELISA test kit detects dieldrin and related cyclodiene insecticides in environment samples at the ppb levels.

Dieldrin Standard Curve



Samples containing Dieldrin within the dynamic range (0.25-25.0 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 Cyclodienes ELISA expressed as (%).

Compound	Cross-Reactivity (%)
Dieldrin	100
Endosulfan	150
Heptachlor	58
Aldrin	26
Chlordane	26
Toxaphene	8.2

Kit Format

Cyclodienes ELISA Kit (Microtiter plate format, 96T) PN 540021

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