

AP33030PU-N

Polyclonal Antibody to Fenitrothion - Purified

Quantity:	1 ml
Concentration:	5 mg/ml
Background:	Fenitrothion is a contact insecticide and selective acaricide of low ovicidal properties. It belongs to the organophosphate family of insecticides. It is considered a cholinesterase inhibitor. It is found on fruits, vegetables and in the environment. Application is also in the storage of grain products. It has adverse effects on algae and mammals due to its biological activity as acetylcholine esterase inhibitor. In water organisms it may have an endocrine (thyroidal) effect.
Host / Isotype:	Chicken / IgY
Immunogen:	BSA-Fenitrothion Conjugate. Chicken egg yolk, purified by PEG extraction.
Format:	State: Liquid purified IgY fraction Purification: PEG Extraction Buffer System: PBS, pH 7.2 Preservatives: 0.02% Sodium Azide
Applications:	ELISA: <i>Titer:</i> 1/10,000 from the delivered solution (The titer is defined as the dilution that gives 50% of the maximum absorbance when tested with ELISA). <i>Suggested Concentration:</i> 1/10,000 from the delivered solution. Plates are coated with 400 ng/ml OVA-conjugated Fenitrothion. HRP-conjugated anti-Chicken-IgG as a tracer 1/8,000. Immunoaffinity Chromatography. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is highly specific for Fenitrothion. Target: CAS no.: 122-14-5, Solubility: Organic solvents. Pesticides: % Cross Reactivity Fenitrothion: 100% 2-4 D: < 0.1% Chlorpiriphos: < 0.1%. Deltamethrin: < 0.1%. Pirimiphos: < 0.1%. Permethrin: < 0.1%. Etriphos: < 0.1%. Atrazine: < 0.1%. Methacrimphos: < 0.1%. Aldicarb: < 0.1%. Malathion: < 0.1%. Tebuconazole: < 0.1%.

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.