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Title: Toxicokinetic and toxicodynamic studies of carbaryl alone or in binary mixtures with azinphos methyl in the freshwater gastropod *Planorbarius corneus*

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**Toxicokinetic and toxicodynamic studies of carbaryl alone or in binary mixtures with
azinphos methyl in the freshwater gastropod *Planorbarius corneus***

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Highlights

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- Snails were exposed for 48h in single-chemical and binary-mixture studies.
- CB inhibited ChE activity in soft tissues and hemolymph with similar EC₅₀ values.
- Carboxylesterases were more sensitive than ChE to CB inhibition in both tissues
- ChE activity in mixtures of CB + AZM followed a concentration addition model.
- Mixtures did not change the toxicokinetic parameters of the parent compounds
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