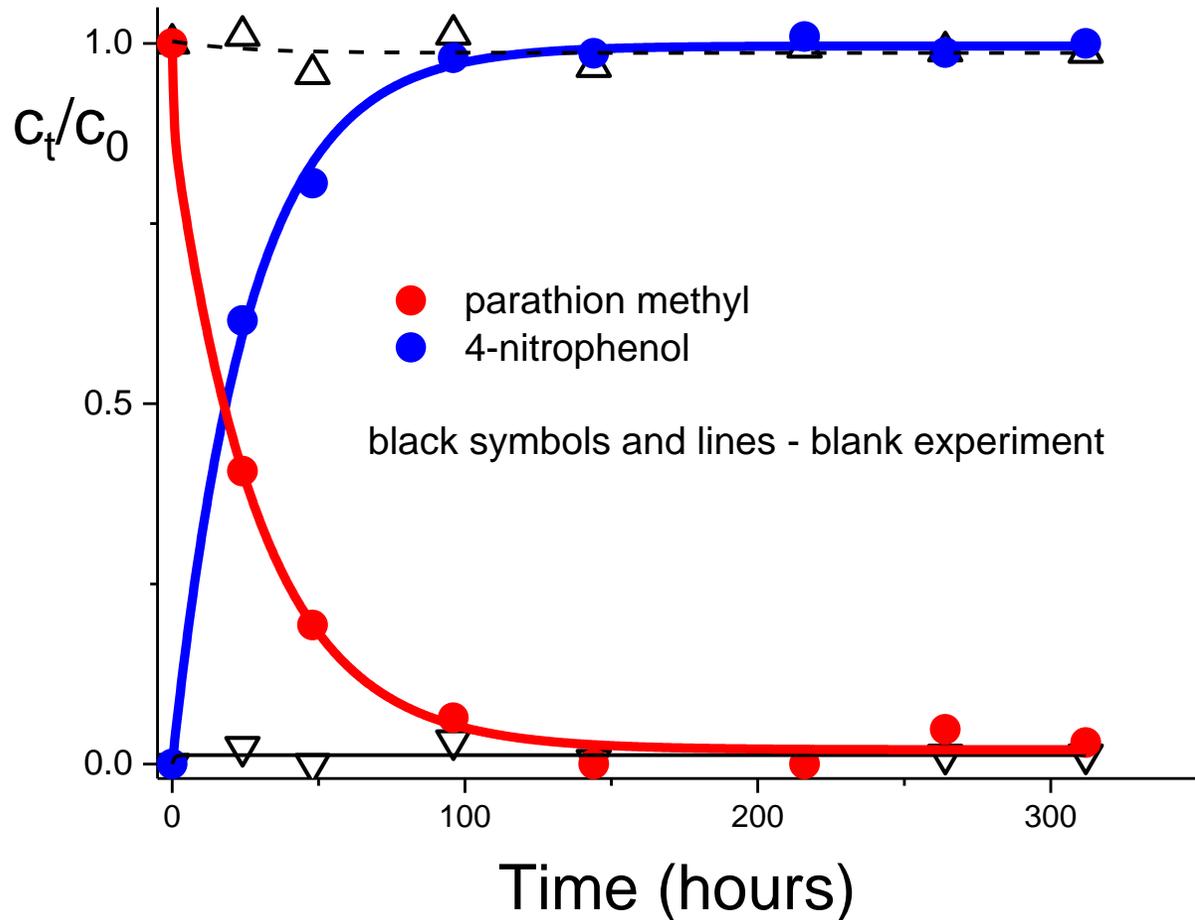
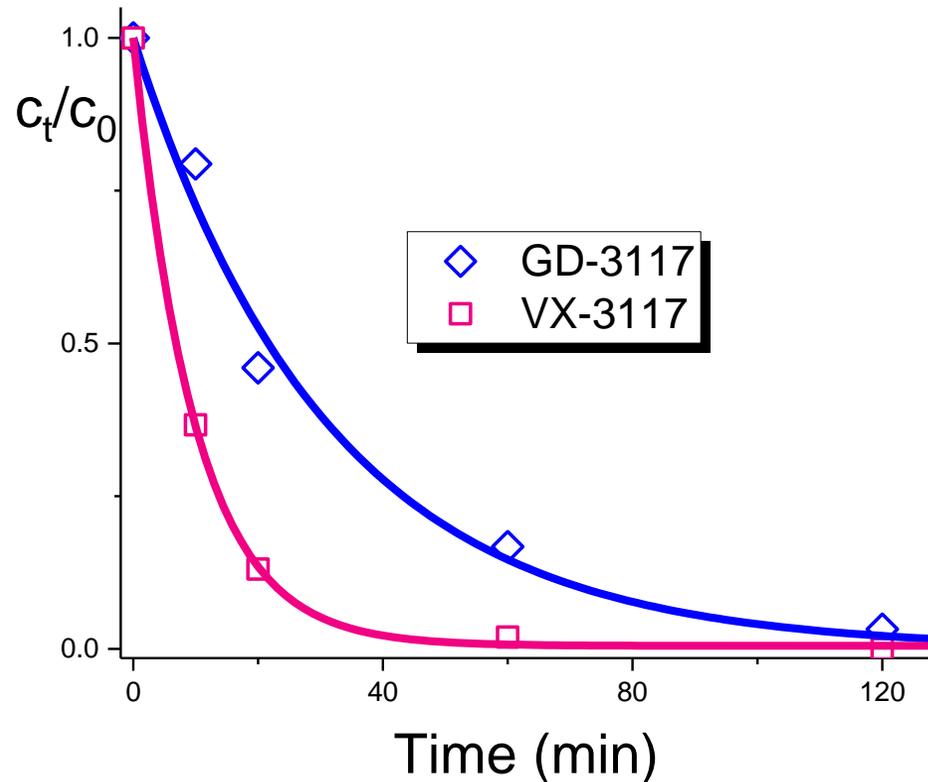


Decomposition of organophosphate pesticide in the presence of **lontosorb AMD**



Bead cellulose based amidoxime functionalized reactive sorbent **lontosorb AMD** was used to destroy organophosphate pesticide parathion methyl in acetate buffer with pH 5.

Destruction of CWAs in the presence of Iontosorb AMD



Bead cellulose based amidoxime functionalized reactive sorbent Iontosorb AMD, Lot. No. 3117 was used to destroy highly dangerous nerve agents VX agent and GD agent (soman) in aqueous media (unbuffered aqueous dispersion of the sorbent).

Iontosorb AMD -

the first member of a new family of the cellulose-based materials

Macroporous bead cellulose is an excellent matrix for sophisticated applications in many diverse areas including analytical chemistry, enzyme engineering or biotechnology, where its hydrophilic nature, high porosity and mechanical as well as chemical resistance are exploited. A new family of the cellulose-based sorbents developed in cooperation with the IONTOSORB Comp. exhibits some unusual capabilities, such as an enhanced selectivity towards some metal cations (heavy metals, lanthanides) or an ability to destroy highly toxic organophosphate compounds.

Advantages of technology

In comparison with other cellulose-based sorbents, the bead cellulose exhibits an excellent mechanical and chemical stability, durability and permeability. Easy-to-handle sorbents are compatible with intended applications in bio-sciences and biotechnology, have a great potential for further targeted modifications.

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