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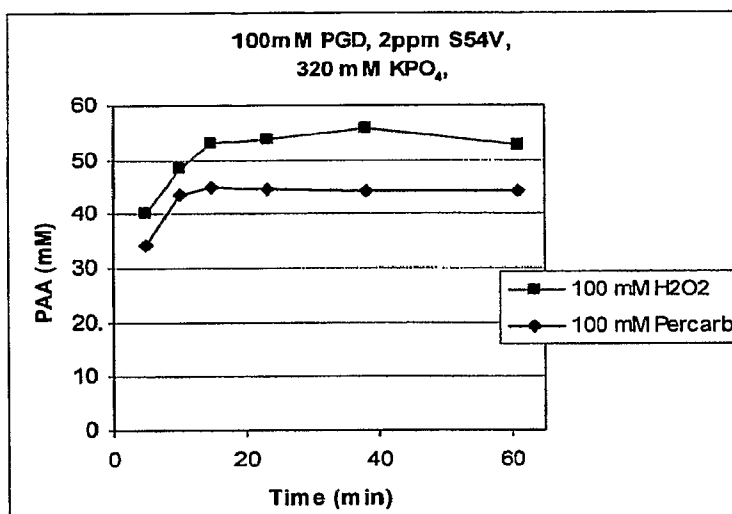
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(57) Abstract: The present invention provides an enzyme system that efficiently generates peracetic acid for use in decontamination applications. In preferred embodiments, the present invention provides a system that comprises an ester substrate, a hydrogen peroxide, and at least one acyl transferase. In some particularly preferred embodiments, the system further comprises at least one surfactant. In alternatively preferred embodiments, the present invention provides at least one wild-type and/or variant acyl transferase. The present invention finds particular use in decontamination involving a wide variety of chemical and biological warfare materials, as well as for general surface cleaning and decontamination.