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## Development of a New Chromogenic Reagent for the Detection of Organophosphorus Herbicide Glyphosate in Biological Samples

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Authors: Umakant D. Pawar, Chan...

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### Summary

A novel chromogenic reagent was developed for the identification and detection of organophosphorus herbicide. The organophosphorus herbicide glyphosate is abundantly used, despite being highly toxic to human beings. In the presented communication, we have developed a simple identification and detection technique for the identification of organophosphorus

herbicides with the help of thin-layer chromatography. By using this technique, we can easily identify the presence of organophosphorus poisoning by the use of cobalt thiocyanate. By using the cobalt thiocyanate reagent, we can easily identify color change by high-performance thin-layer chromatography (HPTLC). We developed a simple HPTLC method for testing forensic samples. The results obtained are highly useful in the field of organic qualitative analysis, chemistry, forensic science, and toxicology.

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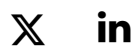
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