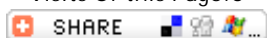




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Research Details :

Research Title : EFFECT OF A SAFENER TOWARDS THIOCARBAMATES ON PLANT LIPID-METABOLISM
EFFECT OF A SAFENER TOWARDS THIOCARBAMATES ON PLANT LIPID-METABOLISM

Descriptipn : It has been found that various thiocarbamate herbicides, known to alter surface wax and cutin synthesis, inhibit the elongation of fatty acids. We have proposed this as a mode of action of such compounds. Because it is believed that the sulphoxide metabolites of thiocarbamates are the active intermediates, we have examined the action of 1-aminobenzotriazole (an inhibitor of sulphoxide formation) on the inhibition of very long-chain fatty acid biosynthesis. In all tissues tested, aminobenzotriazole was able to block the specific inhibitory effect of thiocarbamates on fatty acid elongation. These results add further support to our proposal that fatty acid elongation is a sensitive target site for thiocarbamate herbicides in plants.

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