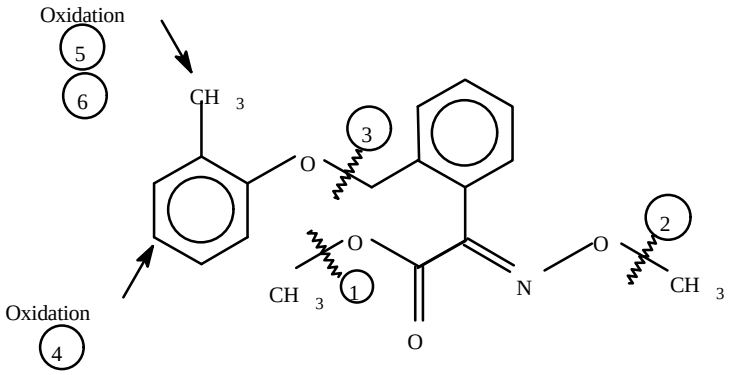
KRESOXIM-METHYL FIGURES 1-13

Figure 1. Metabolic reactions of kresoxim-methyl in rats.



1. Ester cleavage
2. Oxime ether cleavage
3. Benzyl ether cleavage
4. Oxidation on the phenoxy ring
5. Oxidation of methyl group on the phenoxy ring
6. Subsequent oxidation to the carboxylic acid

Figure 2. Metabolic pathways of kresoxim-methyl in goats.

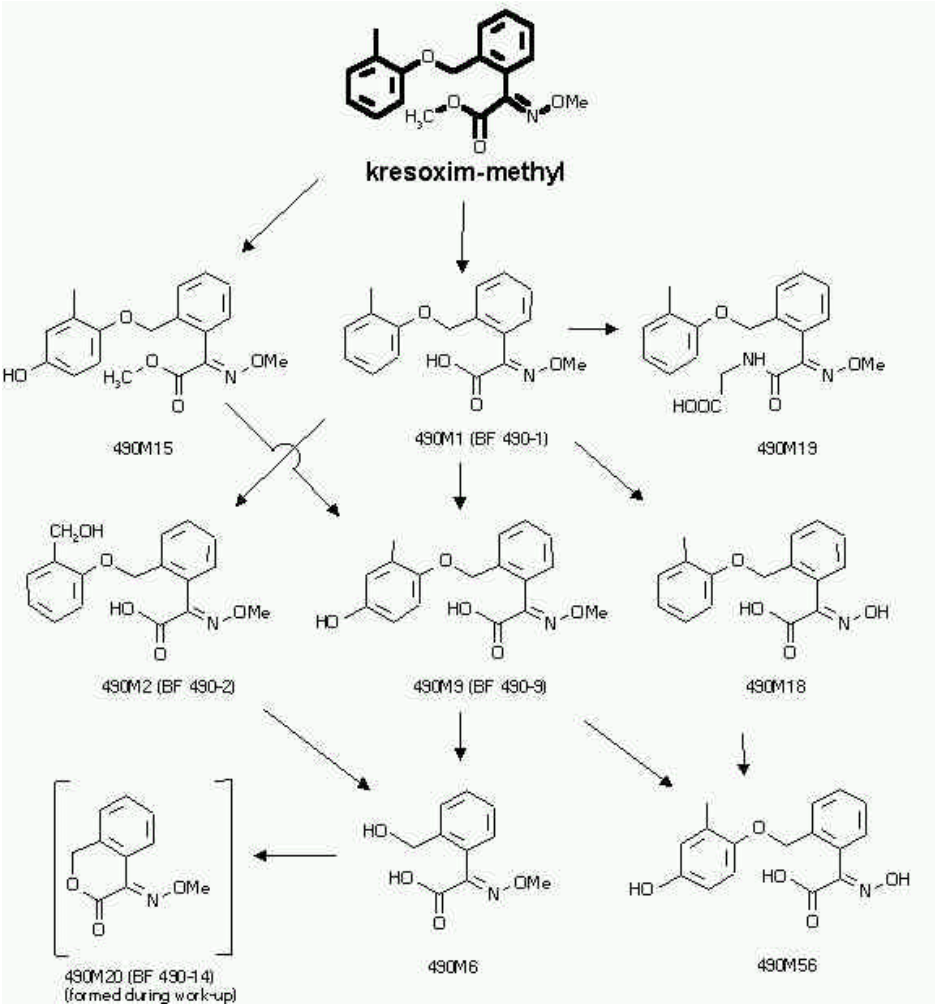


Figure 3. Metabolic pathways of kresoxim-methyl in poultry.

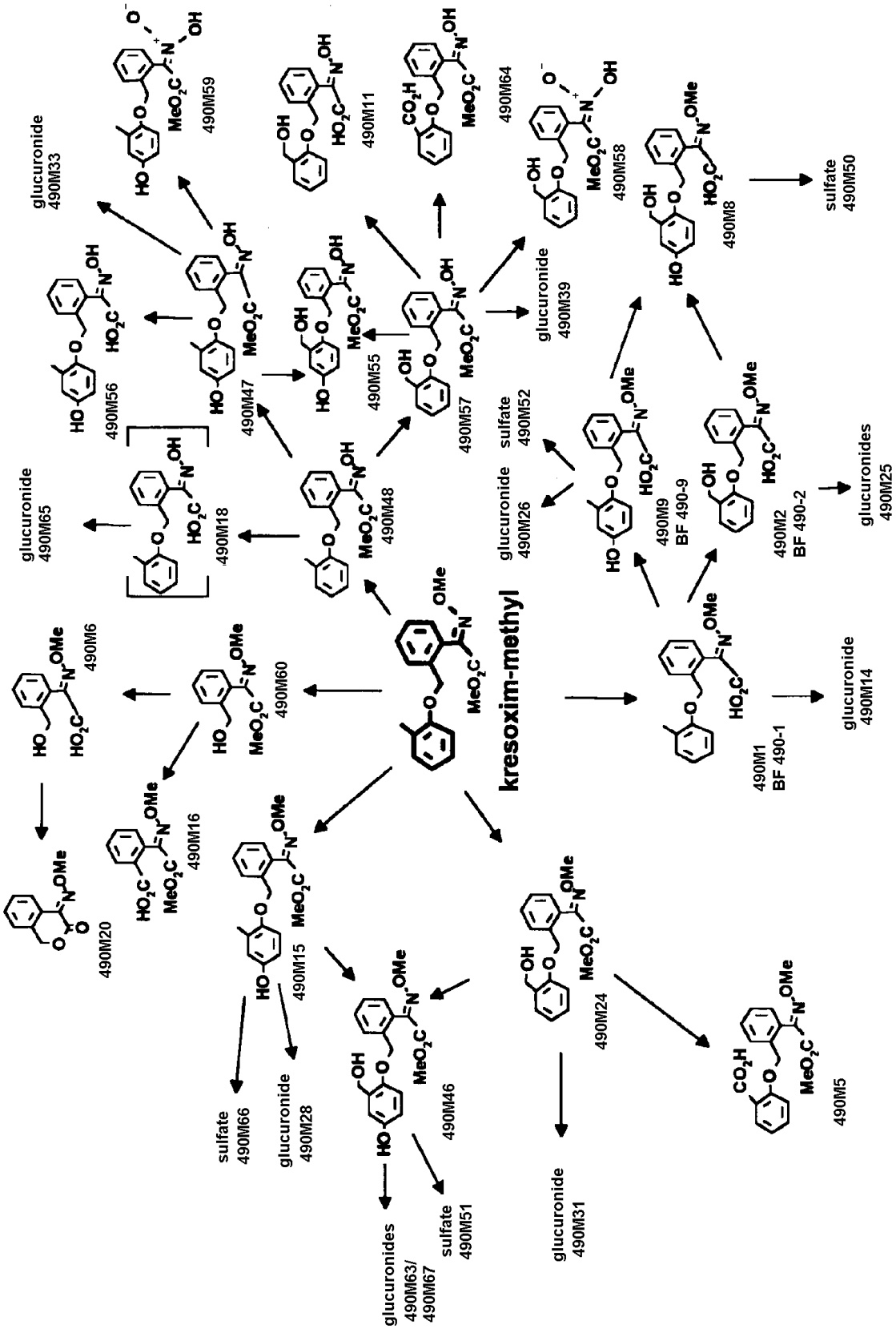


Figure 4. Extraction and characterization of apple peel samples.

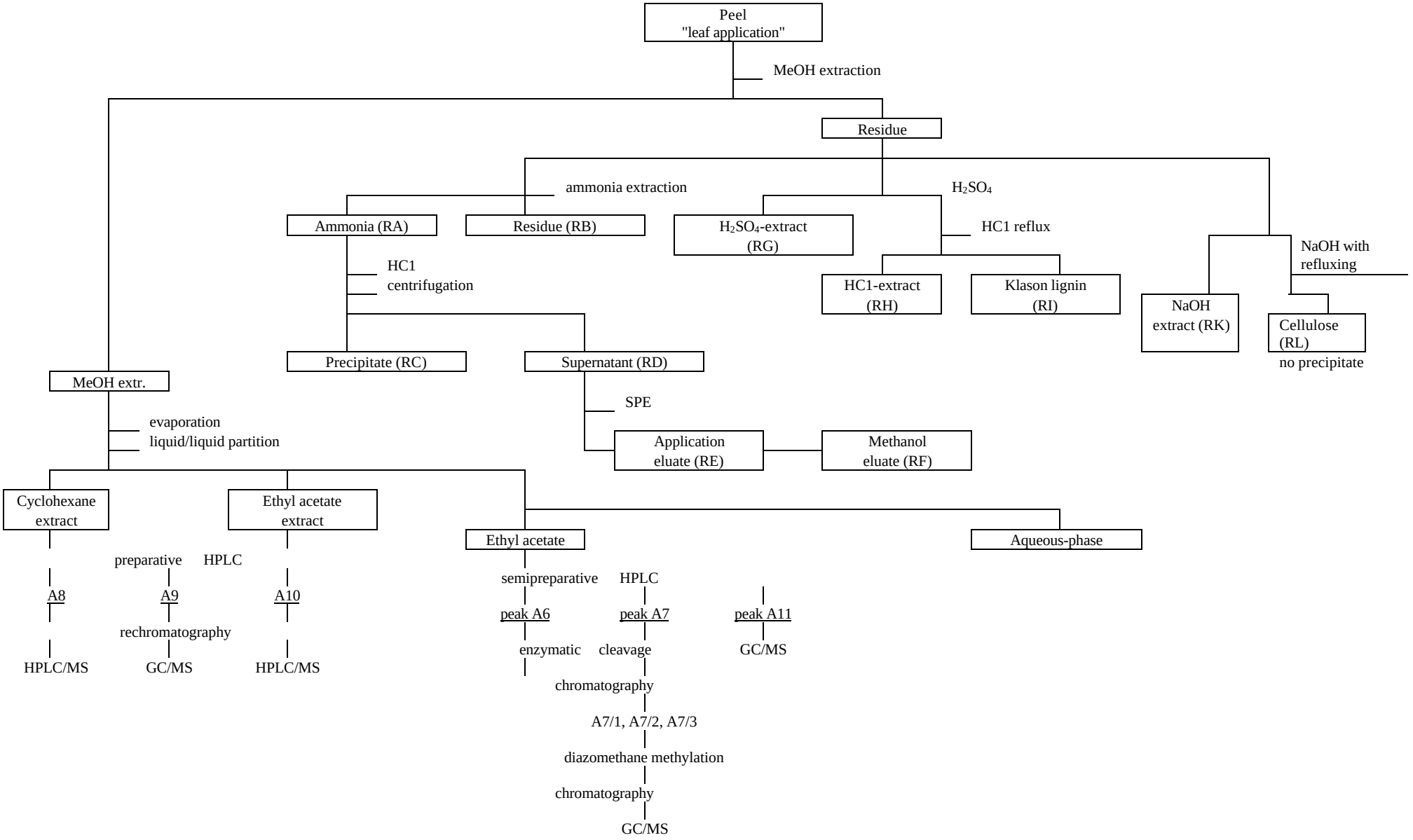


Figure 5. Extraction and characterization of apple pulp samples.

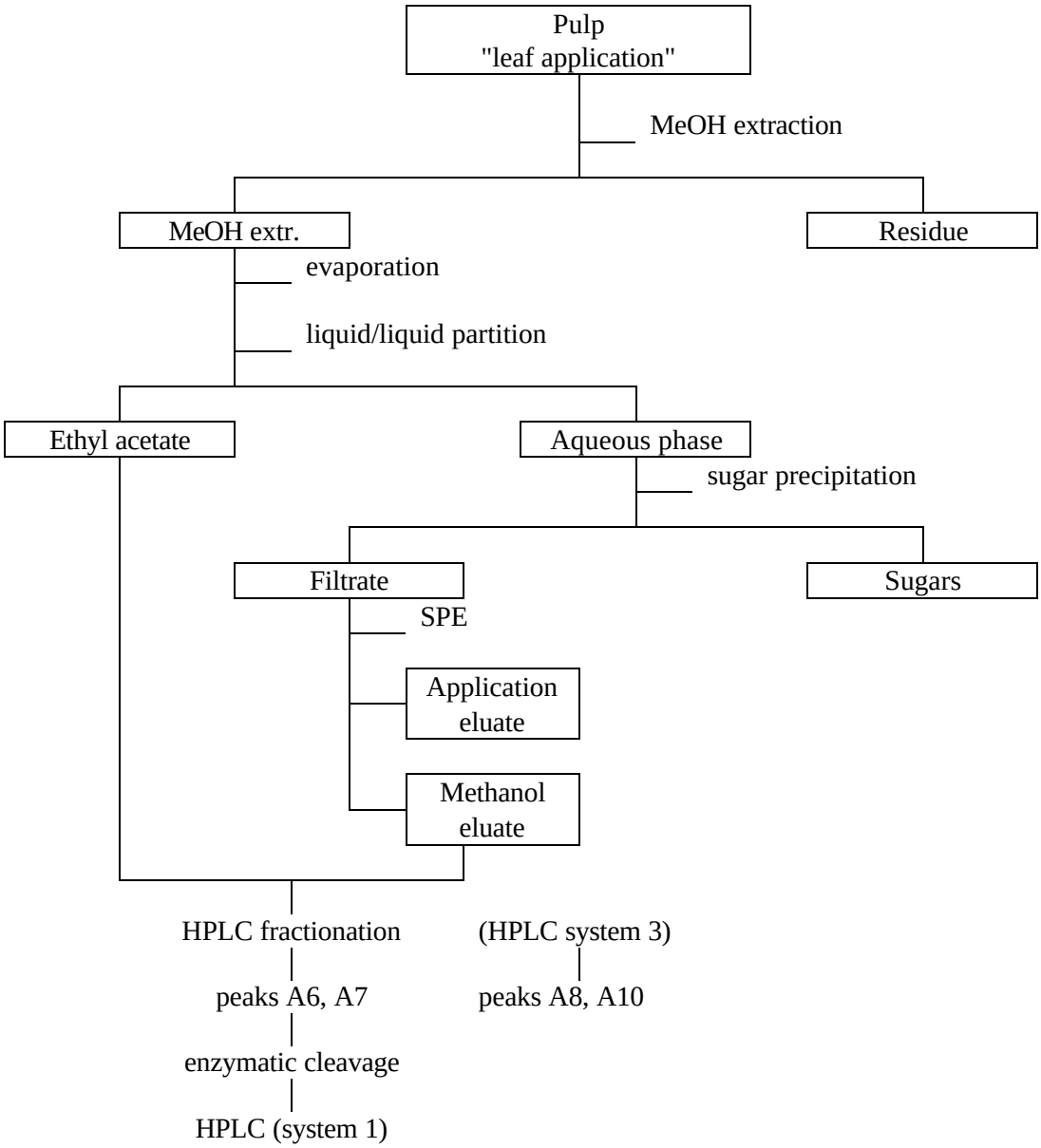
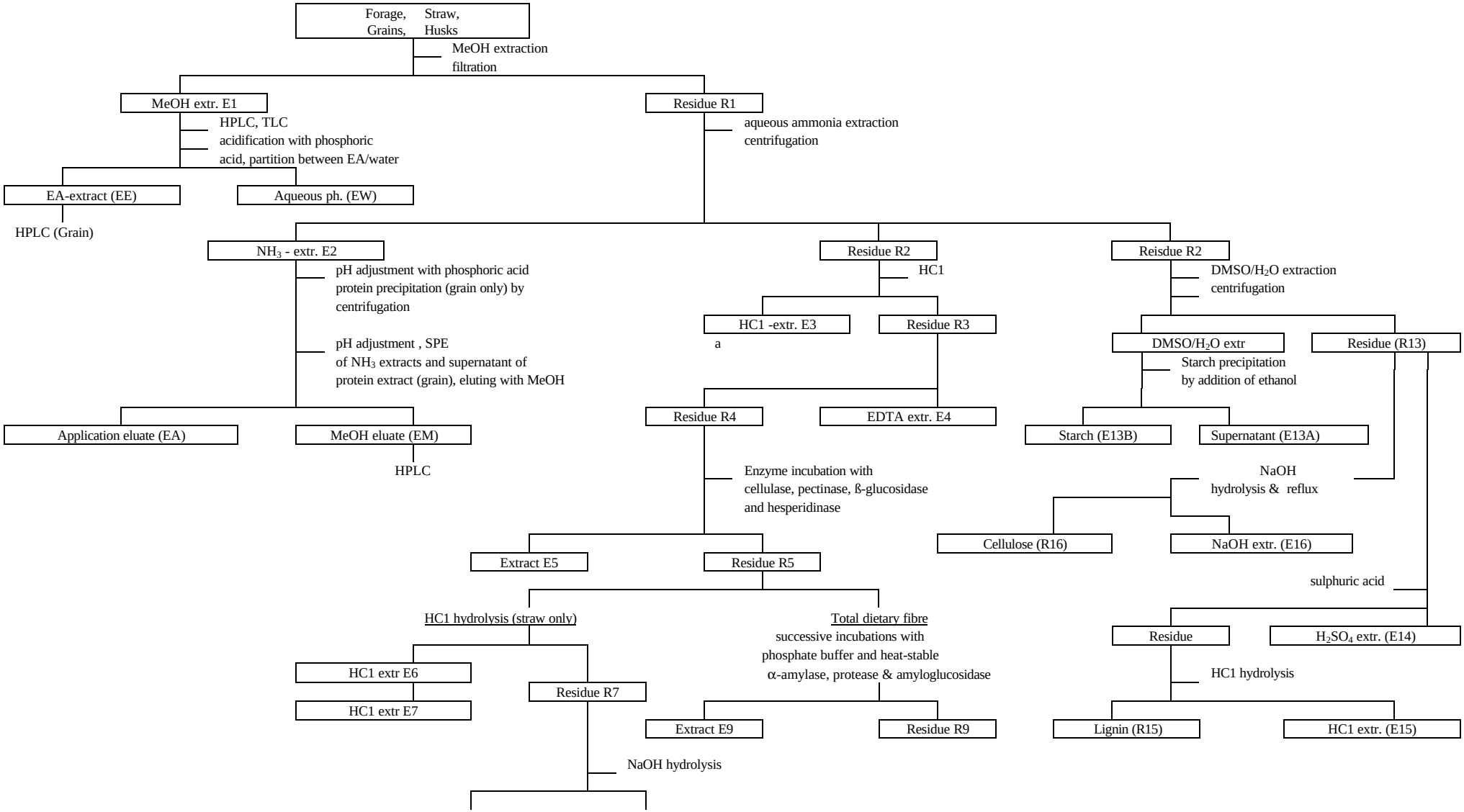


Figure 6. Extraction and characterization of radioactive residues in wheat forage, straw and grain.



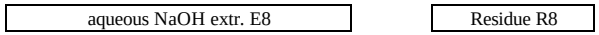
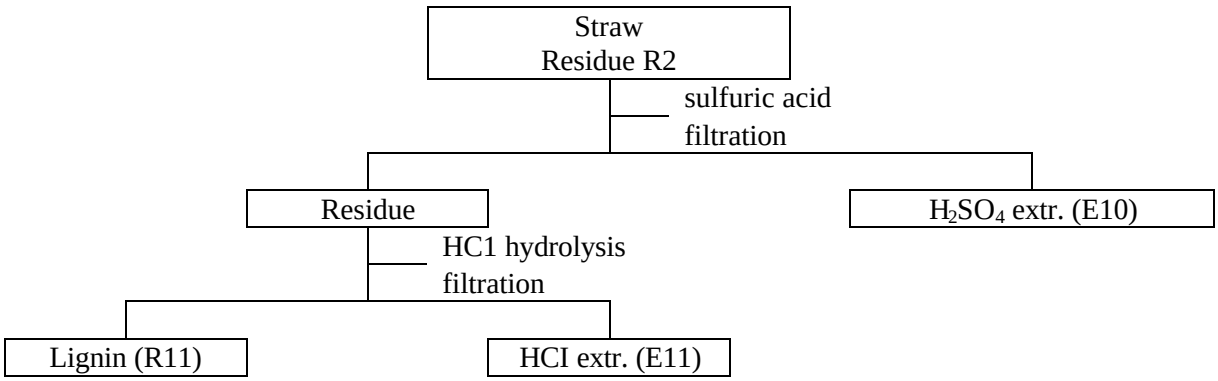

aqueous NaOH extr. E8
Residue R8

Figure 7. Characterization of unextractable residues in wheat straw.

A) Klason Lignin



B) Cellulose fractionation

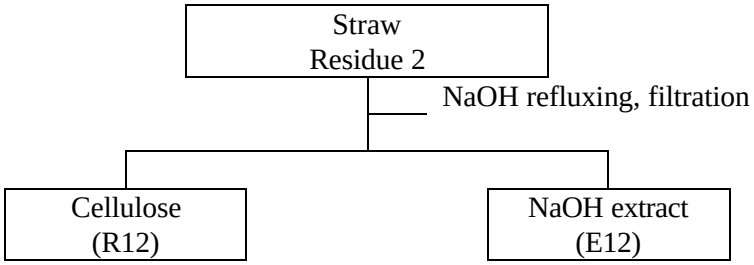
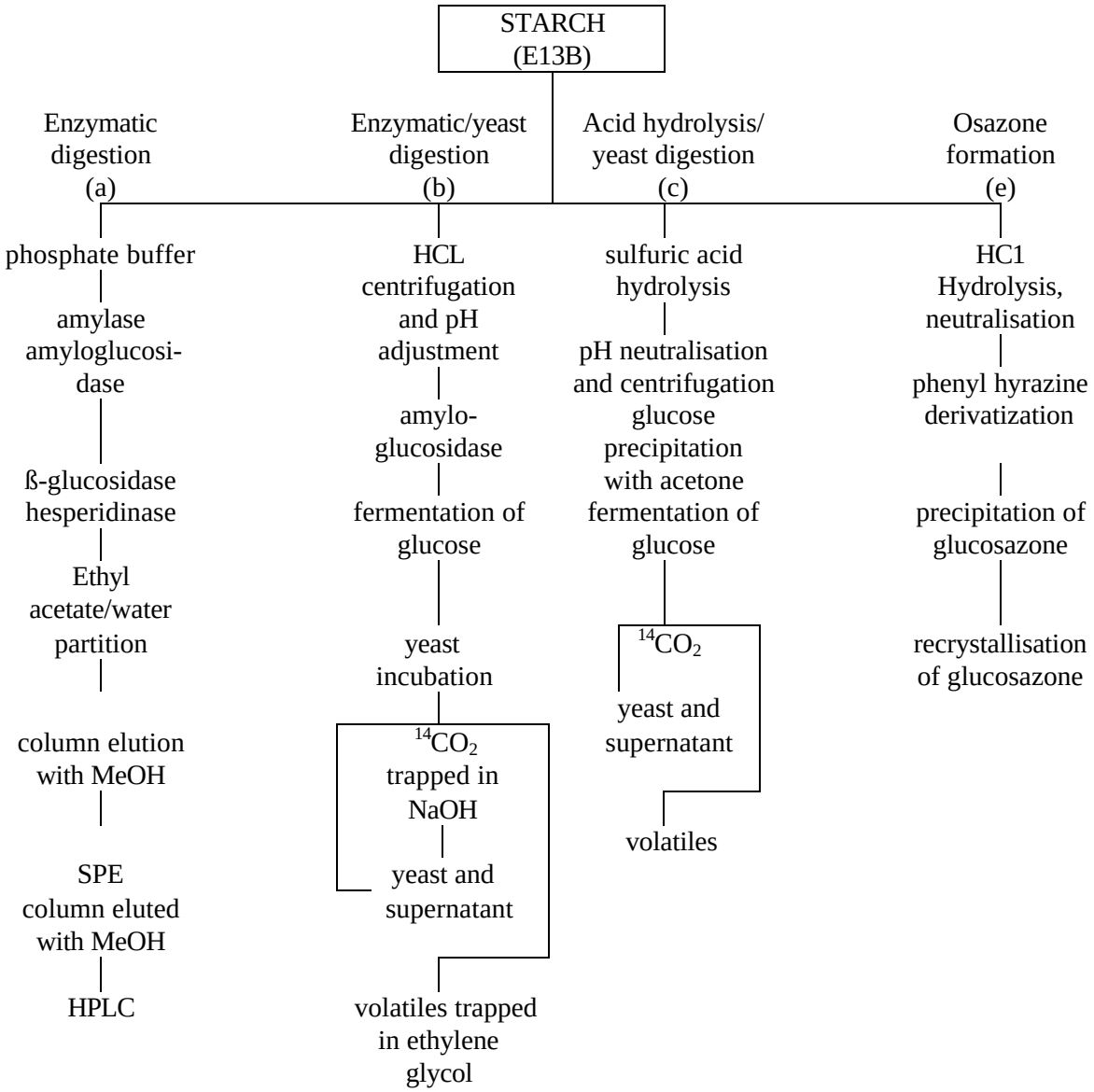


Figure 8. Fractionation of wheat starch.



(d): as trial (c), but with commercially available ^{14}C glucose

Figure 9. Extraction and characterization of ^{14}C residues in grapes.

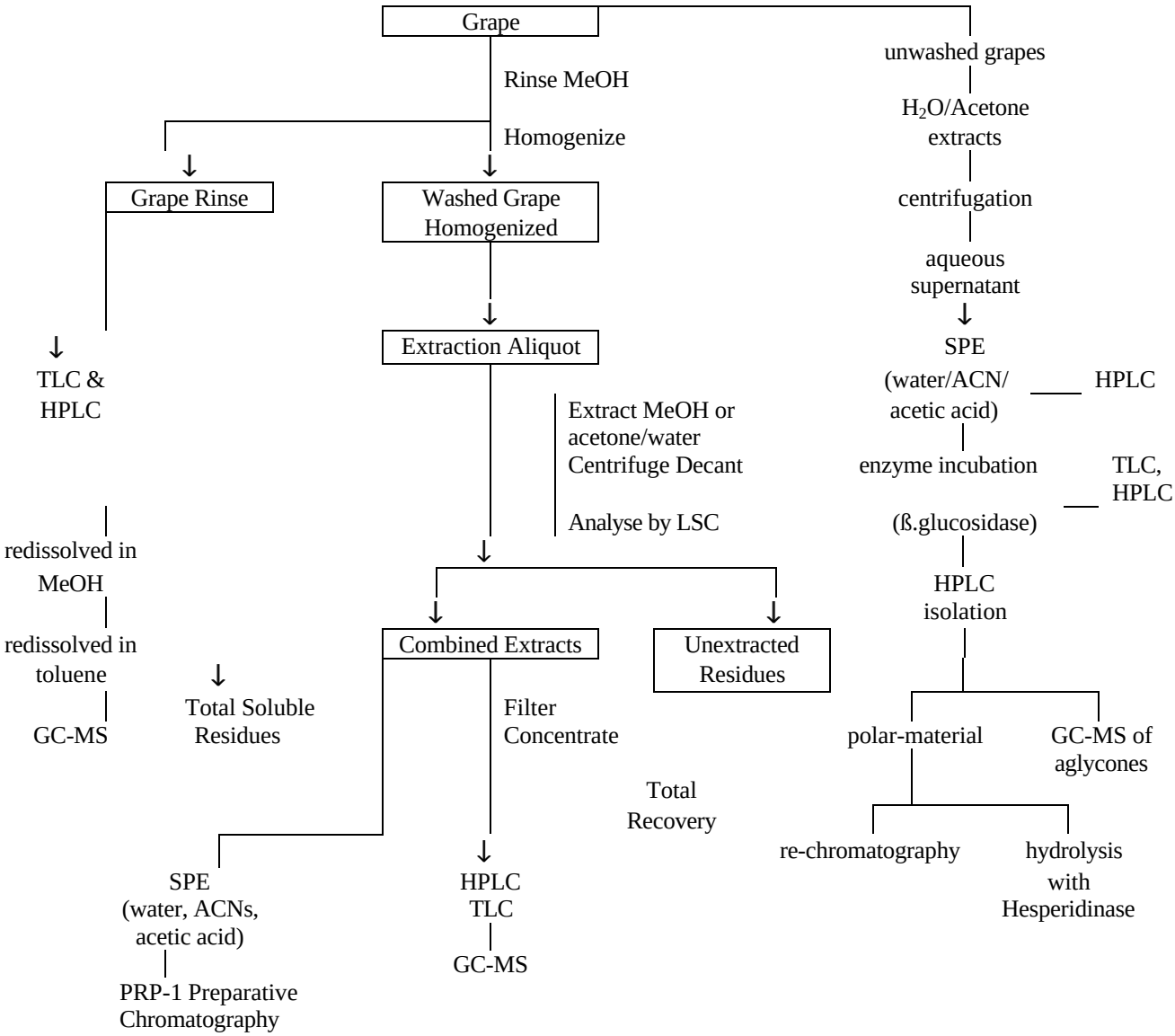


Figure 10. Metabolic pathways of kresoxim-methyl in apples, wheat and following crops

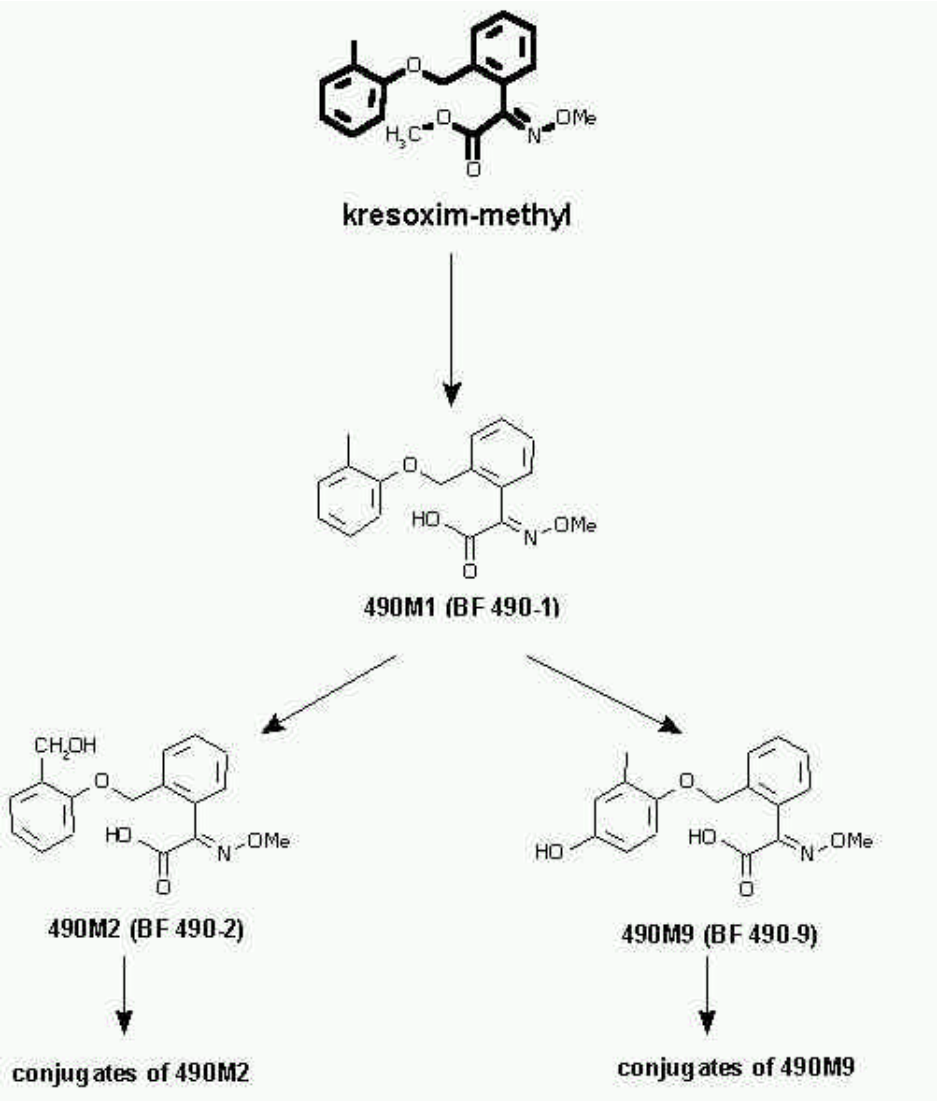


Figure 11. Metabolic pathways of kresoxim-methyl in grapes.

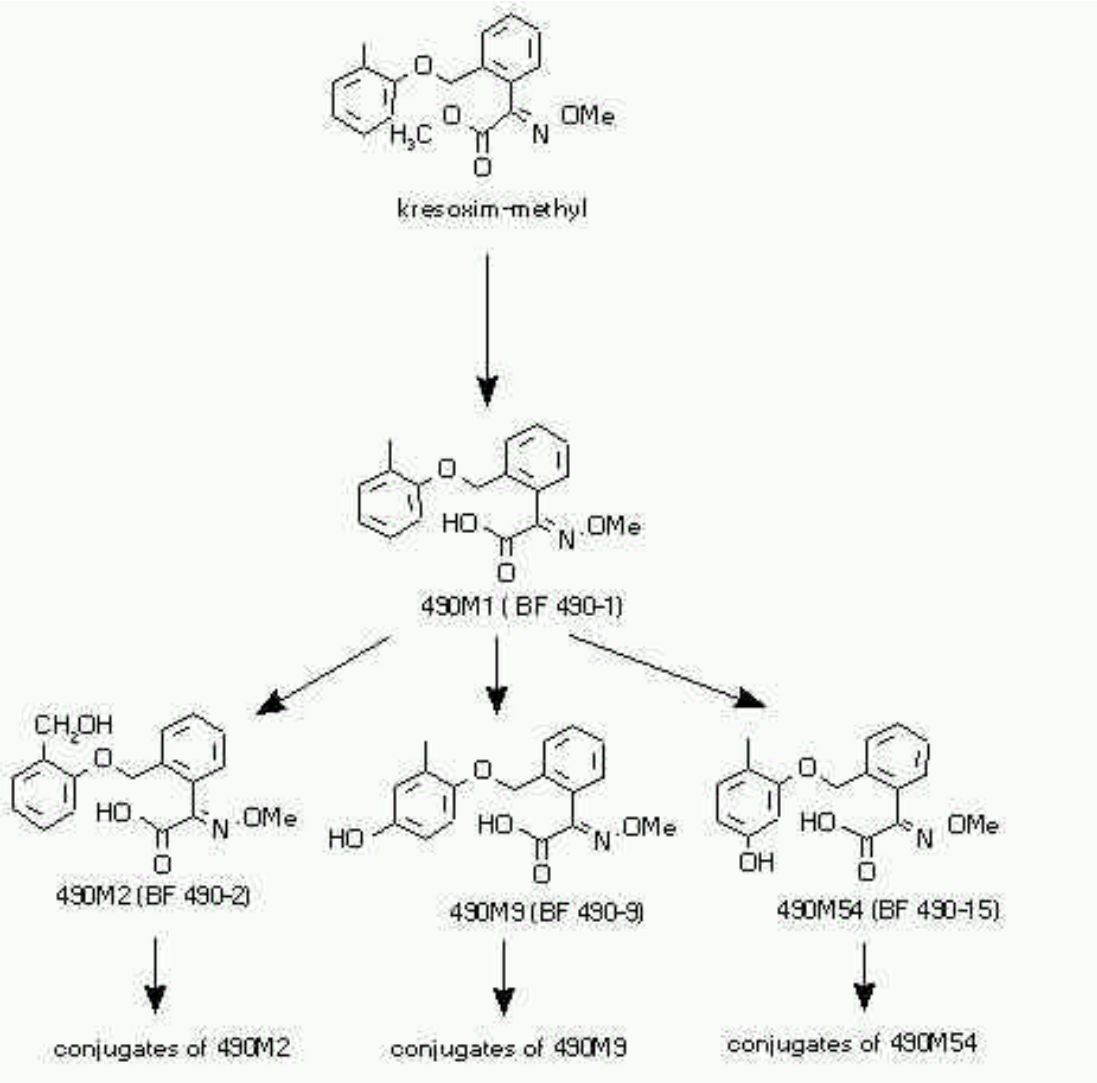
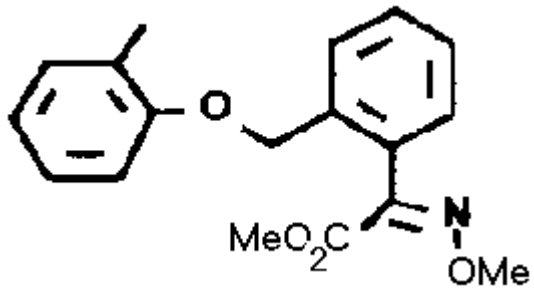
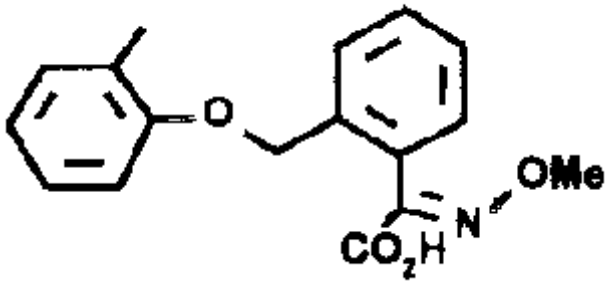
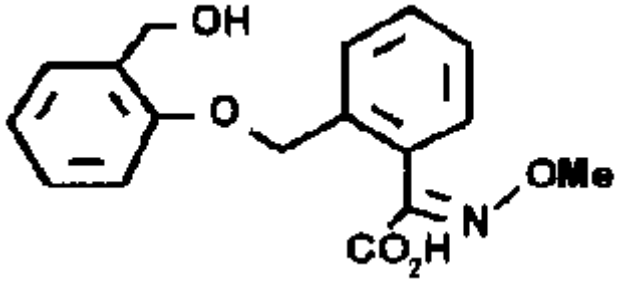
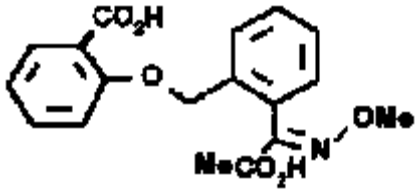
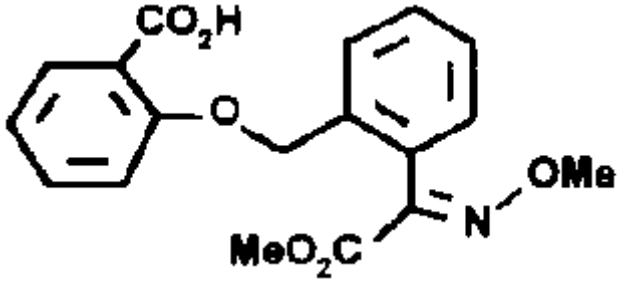
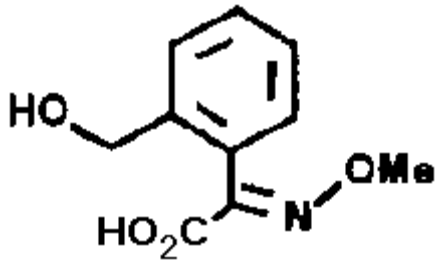
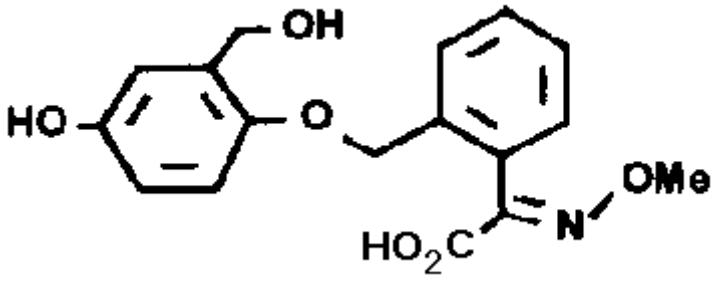
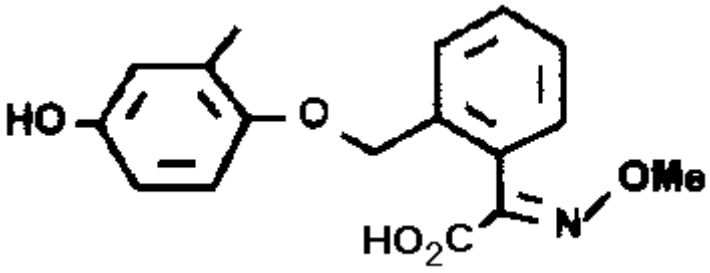
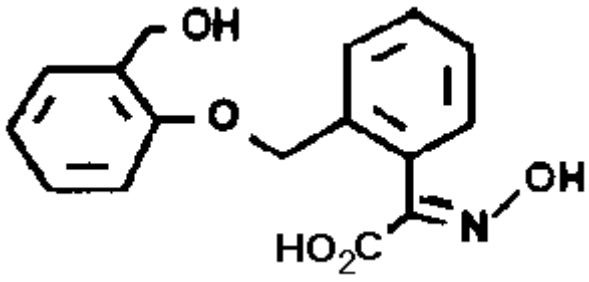
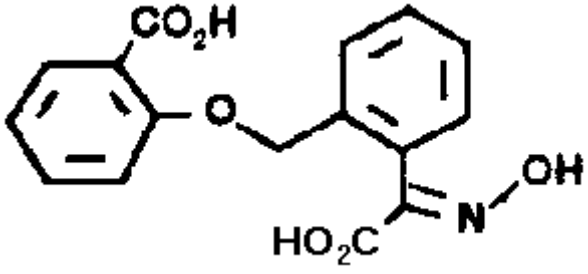
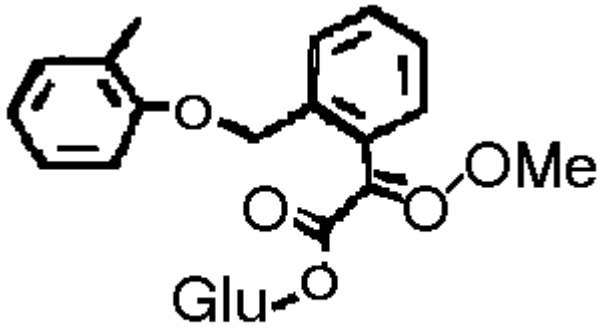
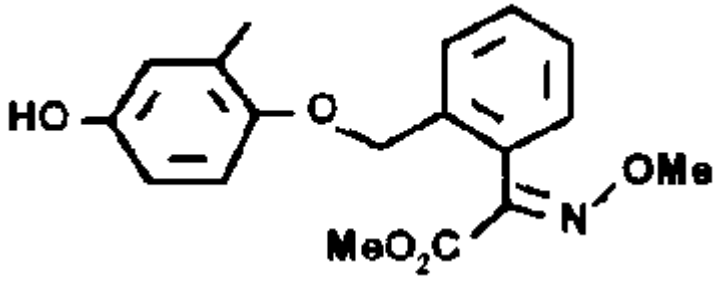
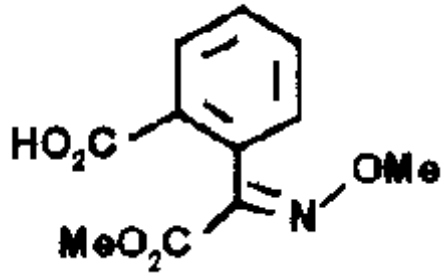
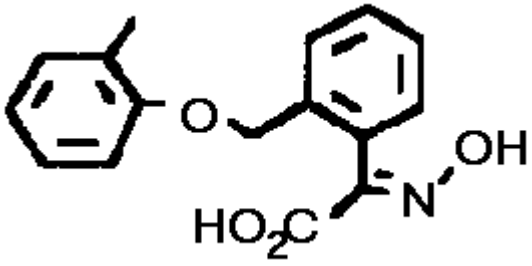
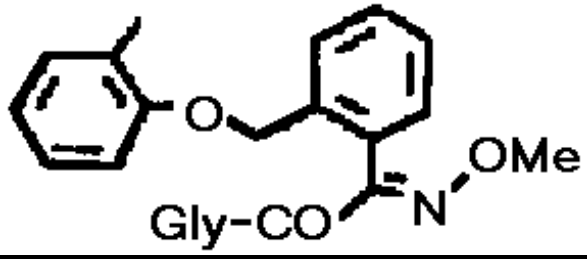
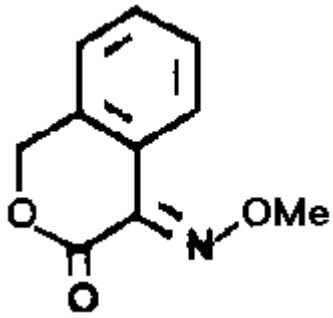
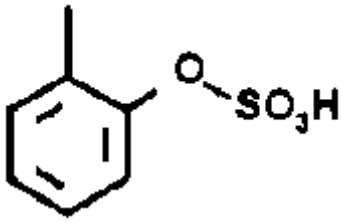
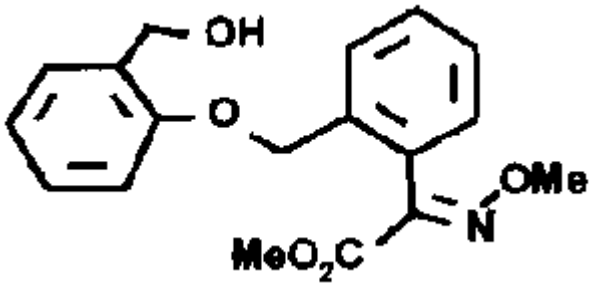
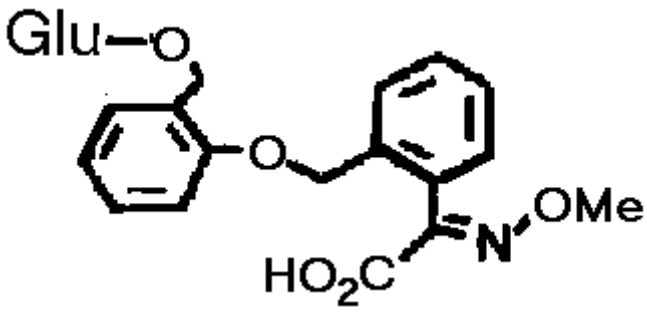
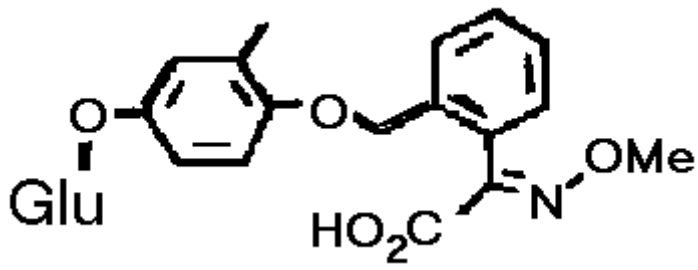


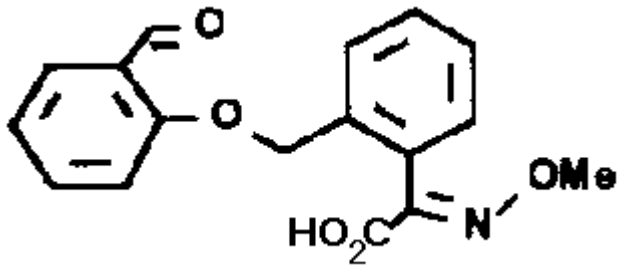
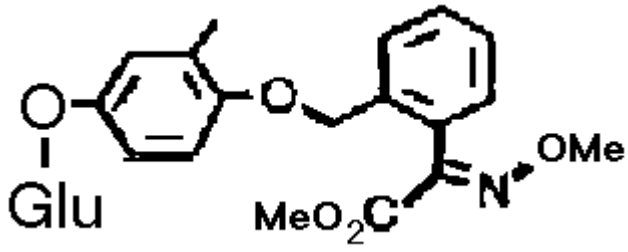
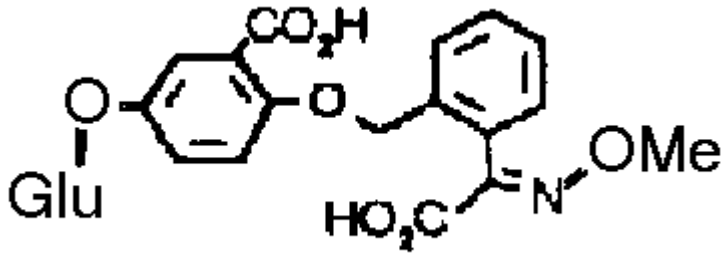
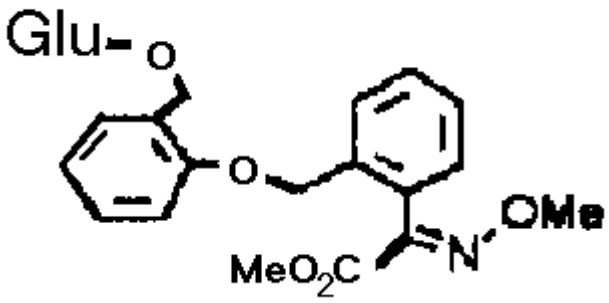
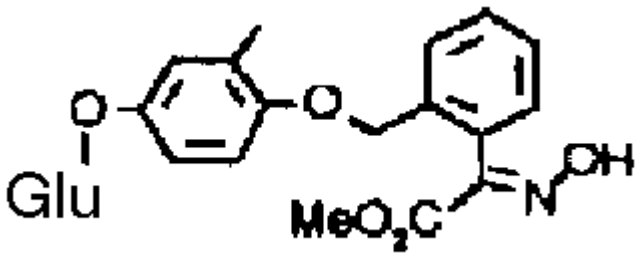
Figure 12. Code names and structures of degradation products and metabolites of kresoxim-methyl.

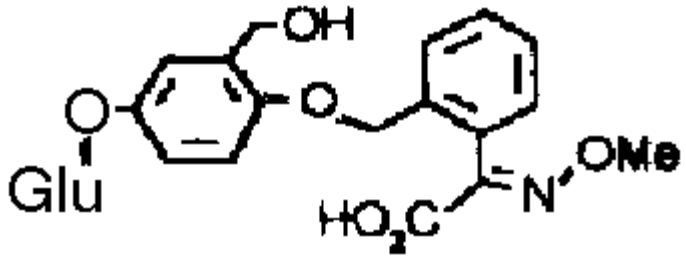
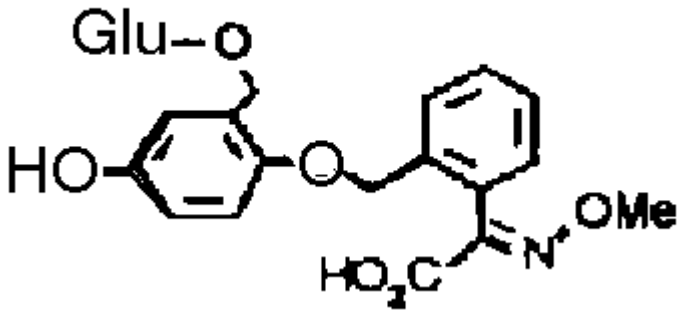
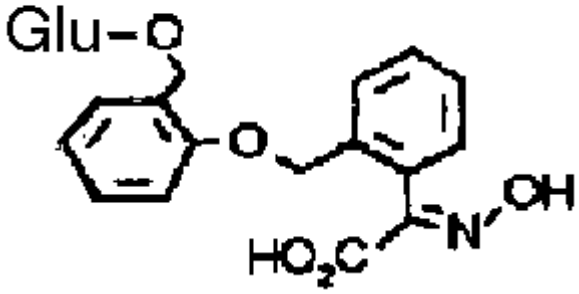
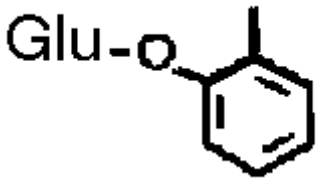
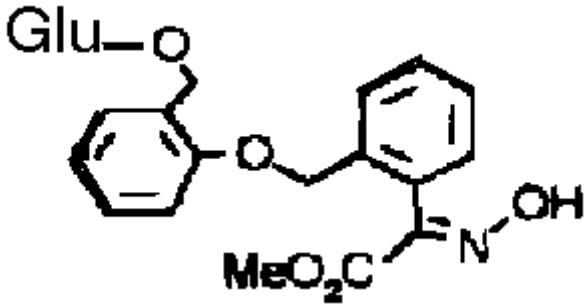
Code	Structure	Occurrence
490M0 (*Z*)-Isomer (242010)		Rat
490M1 BF 490-1 (262451)		Rat Goat Hen Apple Wheat Soil Water
490M2 BF 490-2 (291685)		Rat Goat Apple Wheat Grape
490M4 BF 490-5 (286404)		Rat Soil
490M5		Rat Hen

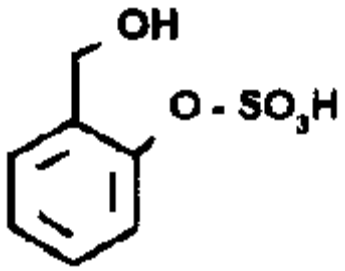
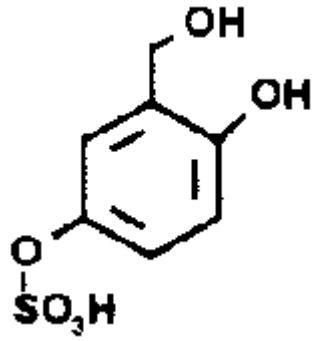
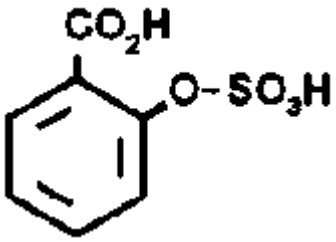
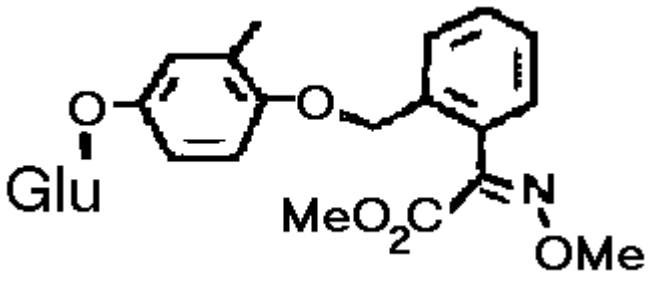
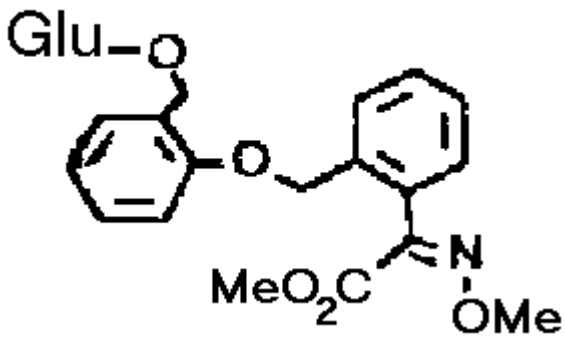
Code	Structure	Occurrence
490M6		Rat Goat Hen
490M8 BF 490-11 (303218)		Rat Hen
490M9 BF 490-9 (292932)		Rat Goat Hen Apple Wheat Grape
490M11		Rat Hen
490M12		Rat

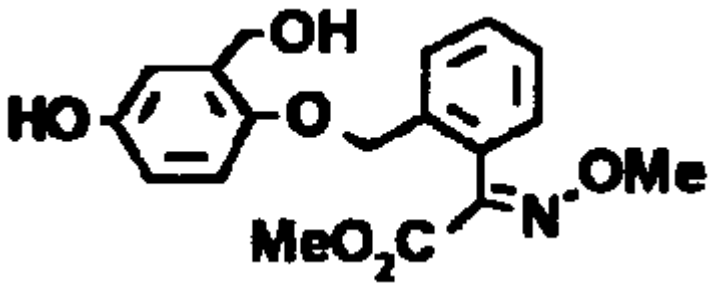
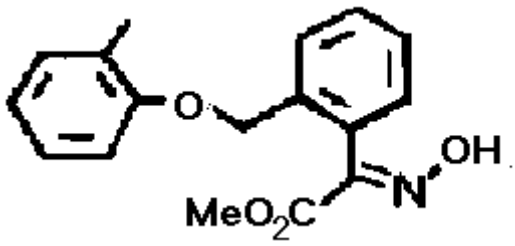
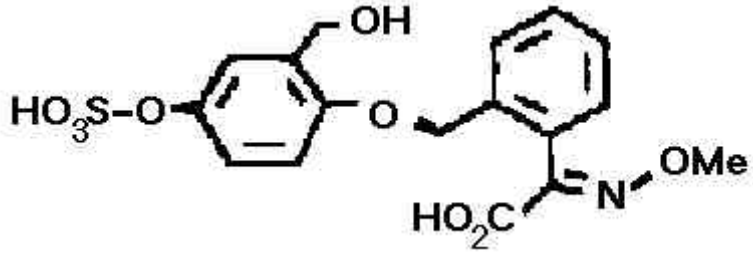
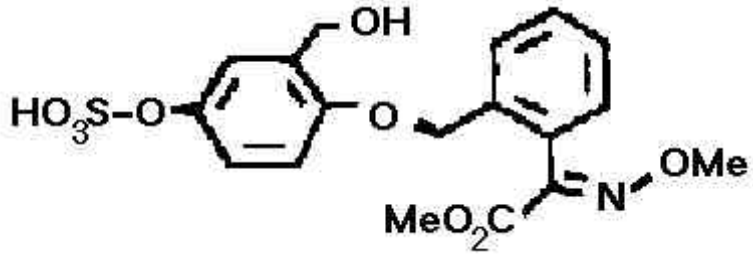
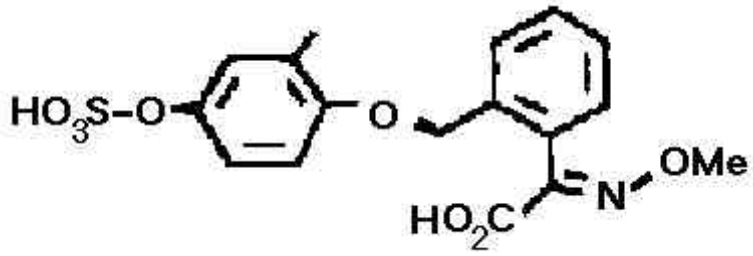
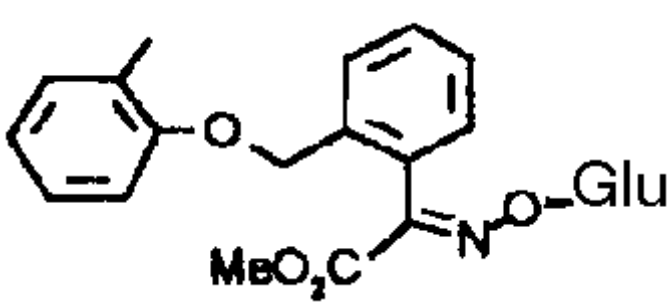
Code	Structure	Occurrence
490M14		Rat Hen
490M15 BF 490-4 (299446)		Rat Goat Hen
490M16		Rat Hen
490M18 BF 490-8 (299153)		Goat
490M19		Goat

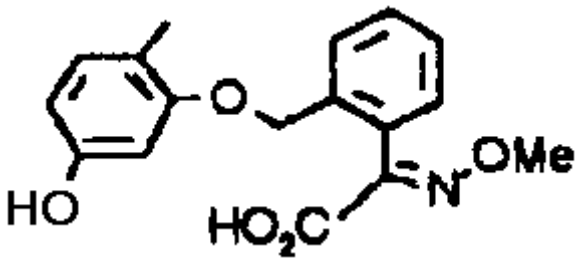
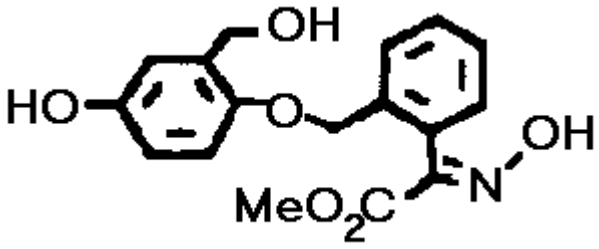
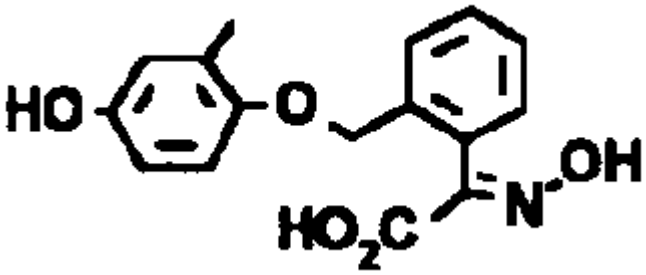
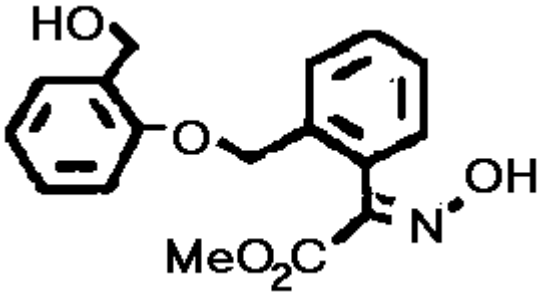
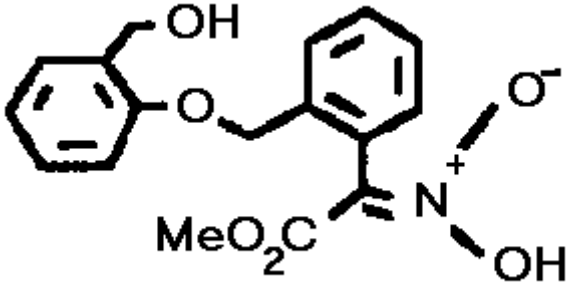
Code	Structure	Occurrence
490M20 BF 490-14		Rat Hen
490M22		Rat
490M24		Rat Hen
490M25		Rat Hen
490M26		Rat Hen

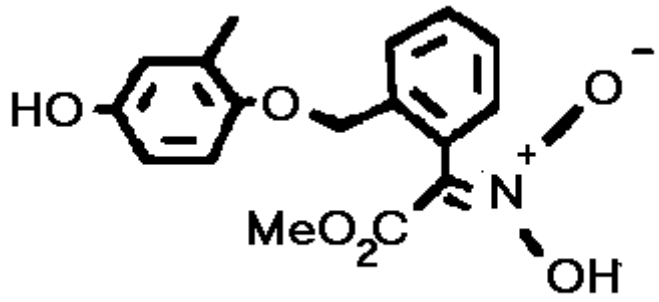
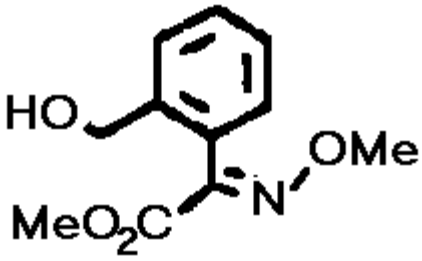
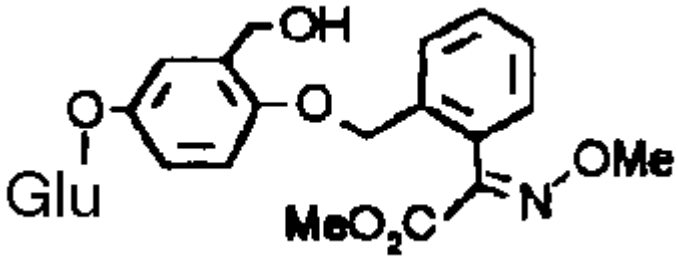
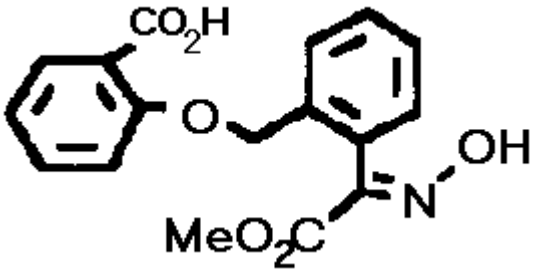
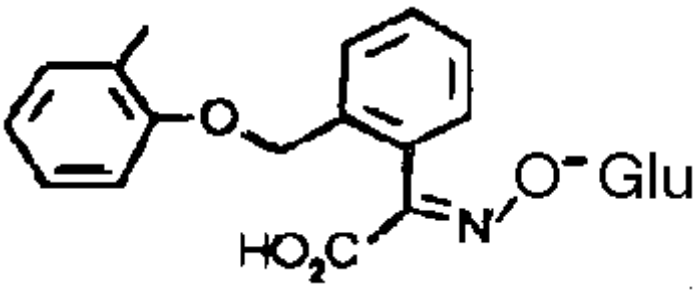
Code	Structure	Occurrence
490M27		Rat
490M28		Rat Hen
490M29		Rat
490M31		Rat Hen
490M33		Rat Hen

Code	Structure	Occurrence
490M34		Rat
490M35		Rat
490M36		Rat
490M37		Rat
490M39		Rat Hen

Code	Structure	Occurrence
490M41		Rat
490M42		Rat
490M43		Rat
490M44		Rat
490M45		Rat

Code	Structure	Occurrence
490M46		Hen
490M48 BF 490-3 (266042)		Hen
490M50		Hen
490M51		Hen
490M52		Hen
490M53		Rat

Code	Structure	Occurrence
490M54 BF 490-15		Grape
490M55		Hen
490M56		Goat Hen
490M57		Hen
490M58		Hen

Code	Structure	Occurrence
490M59		Hen
490M60		Hen
490M63		Hen
490M64		Hen
490M65		Hen

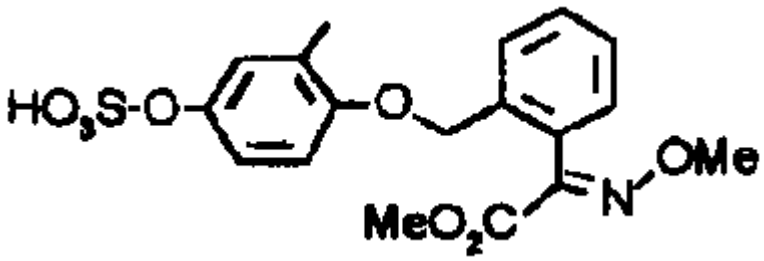
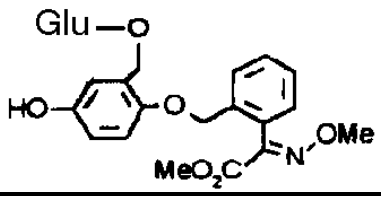
Code	Structure	Occurrence
490M66		Hen
490M67		Hen

Figure 13. Proposed degradation pathway of kresoxim-methyl in soil.