

# Environmental Fate and Metabolism

Pharmaron provides environmental risk assessment services for agrochemicals, pharmaceuticals, veterinary products, biocides and industrial chemicals to GLP. We offer a comprehensive range of environmental fate and metabolism studies to evaluate compound disposition in soil, sediment and water including residue analysis in crops and livestock. Our environmental services can be closely integrated with radiosynthesis and radiolabelling of compounds with  $^{14}\text{C}$  and  $^3\text{H}$ .

## Capabilities

- Custom Radiosynthesis of  $^{14}\text{C}$  and  $^3\text{H}$  Compounds
- GLP Certificates of Analysis
- Environmental Fate
- Plant Metabolism
- Laboratory Animal Metabolism
- Livestock Metabolism
- Dermal Penetration
- Cross-species Comparative Metabolism
  - $^{14}\text{C}/^3\text{H}$
  - Non-labelled
- Metabolite Profiling and Identification
- Chiral Analysis

## OECD Studies

### Environmental Fate

- OECD 106 - Adsorption/Desorption
- OECD 111 - Hydrolysis as a Function of pH
- OECD 507 - High Temperature Hydrolysis (processing study)
- OECD 307 - Aerobic and Anaerobic Transformation in Soil
- OECD 308 - Aerobic and Anaerobic Transformation in Aquatic Sediment Systems
- OECD 309 - Aerobic Mineralization
- OECD 316 - Phototransformation of Chemicals in Water - Direct Photolysis
- OECD Draft - Soil Photolysis
- Water Treatment Simulation

### Laboratory Animal Metabolism

- OECD 417 - Toxicokinetics

### Plant and Livestock Metabolism

- OECD 501 - Metabolism in Crops
- OECD 502 - Metabolism in Rotational Crops
- OECD 503 - Metabolism in Livestock

### Dermal Penetration

- OECD 427 - Skin Absorption: *in vivo* Model
- OECD 428 - Skin Absorption: *in vitro* Method