



Agricultural Services

Ricerca Biosciences provides extensive support to clients in the Agricultural Chemicals industry. Our broad service offering includes biological, chemical, and regulatory support in a GLP-compliant facility.

Metabolism

- Plant metabolism
 - Metabolite identification
 - Distribution studies
 - Reincorporation methodology (¹⁴C)
- Animal metabolism
 - Absorption, distribution, excretion
 - Single and multiple dose
 - Oral, dermal, IP, IV
 - Special surgical techniques
 - Bile duct cannulation
 - Jugular cannulation
 - Metabolite identification/quantitation
 - Nature of the residue studies

Environmental Fate

Degradation (hydrolysis, photodegradation)
Aerobic and anaerobic metabolism (soil, aquatic)
Mobility (absorption/desorption, soil column leaching, lab volatility)
Prospective/retrospective groundwater
Fish bioaccumulation (metabolite identification)
Confined accumulation (rotational crop)
Field rotational crop

Toxicology

- Acute
- Subchronic
 - Dermal
 - Gavage
 - Dietary
- Chronic toxicity/carcinogenicity
- Single and multigeneration reproduction
- Neurotoxicity
- Target animal safety
- Studies to support animal health industry



*To receive more detailed information, contact
Phillip S. Cassidy • 440-357-3675 or 888-Ricerca*



Making Sense of Science

Agricultural Services



Product Chemistry

- Product Chemistry packages (active ingredient, formulation)
- Methods development and validation
- GLP characterization
 - Test, control, reference substances
- Certificate of Analysis (FIFRA, TSCA, OECD, J-MAFF requirements)
- Problem solving
 - Deformulations
 - Trace impurity isolation/identification

Synthetic Chemistry

- Analytical standards, model compounds, metabolites
- Radiolabeled synthesis

Program Management and Consulting

- Project coordination
- Technical support of registration packages

Residue Chemistry

- Field soil dissipation
- Magnitude of the residue Crop field trials & storage stability Livestock feeding studies (cattle, poultry)
- Analytical methods development
- Independent Laboratory Validations (ILV)