

Tissue Imaging Services Using Radiolabelled Compounds

Pharmaron performs Quantitative Whole Body Autoradiography (QWBA) and microautoradiography (mARG) studies on a wide range of compounds including biologics. Pharmaron's UK site provides radiolabelling options for both ^{14}C and ^3H .

Capabilities

- Custom radiosynthesis of ^{14}C and ^3H compounds
- ^{14}C and ^3H RadioTag[®] for macromolecules
- QWBA
- mARG
- Dosimetry assessment
- Novel real-time digital imaging
- Non-clinical ADME
 - Excretion balance
 - Metabolite profiling
 - Metabolite ID
- ADME in pharmacology models
- Catabolite profiling for large molecules

Services

Radiosynthesis

- Custom radiosynthesis of ^{14}C and ^3H labelled molecules
- Radiolabelling of peptides, proteins and antibody-drug conjugates (ADCs)
- Tritiated oligonucleotide synthesis
- Covalent radiolabelling techniques with $^3\text{H}/^{14}\text{C}$ (RadioTag[®]) for macromolecules

Quantitative Whole Body Autoradiography (QWBA)

- Distribution of drug-related material in blood and tissues
- Target organ engagement for drug-related material (e.g. CNS, liver, kidney)
- Identify sites of accumulation or disposition
- Assess melanin-binding in pigmented tissues
- Fetal exposure and milk secretion to support teratology studies
- Human dosimetry and dosimetry reports for clinical metabolism studies

Microautoradiography (mARG)

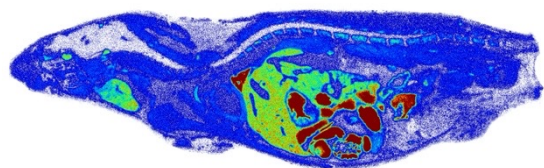
- High resolution imaging for both intra-organ and intracellular distribution
- Identification of binding sites within organs and cells
- Receptor occupancy studies and immunohistochemistry

Novel Real Time Autoradiography

- Fast turnaround digital tissue imaging to support early phase investigations
- Differential tissue distribution for dual $^3\text{H}/^{14}\text{C}$ radiolabelled compounds

Real-time Digital Imaging

6 hours post ^3H -amlodypine administration



24 hours post ^3H -amlodypine administration

