

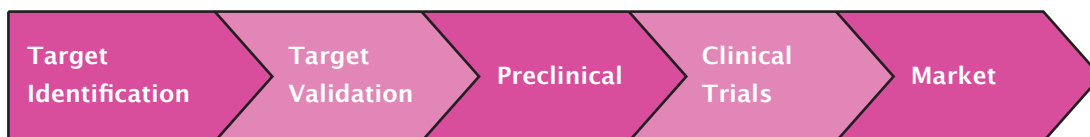
ADME Tox Services

Supporting preclinical and clinical trial studies

Drug toxicity is a leading cause of new drugs failing to reach the market. This costs drug development companies millions of pounds in lost revenue.

We can save you time and money.

Using our AmpliChip® and ABI SNP genotyping services, we can provide a robust and rapid indication of drug toxicity in the early stage. MicroRNA analysis related to targets can also be carried out together with gene silencing siRNA knockdown.



Roche AmpliChip® CYP450

The AmpliChip® CYP450 test is the FIRST pharmacogenetic microarray-based test which is FDA and IVD approved for clinical use.

The test identifies a patient's CYP2D6 & CYP2C19 genotype by analysing DNA extracted from a whole blood sample. These two genes influence the metabolism of commonly prescribed drugs. The AmpliChip CYP450 test can predict phenotypes based on genotype, stratifying patients according to their profiles to ensure the best therapeutic results.



Applications

- Managing **drug development and clinical trials**
- **Optimising** drug dosage
- **Targeting** drugs to the most receptive groups
- **Differentiating** drugs in the market
- Providing information for **pharmaceutical clinical trials**
- Providing information on associated phenotypes

Benefits

- **Robust and accurate** results
 - Sensitivity for normal CYP2D6 & CYP2C19 alleles is **100%**
 - Sensitivity for 33 CYP2D6 alleles is **99.2%**
 - Sensitivity for 3 CYP2D19 alleles is **100%**
- Unparalleled **characterization**
- Identifies CYP2D6 **duplications and deletions**
- Software generates **customized reports** for both phenotype and genotype

ABI SNP Genotyping

SourceBioScience is a preferred UK service provider for ABI SNP genotyping. We can genotype over 2,600 high value polymorphisms located in regulatory elements and coding regions for 220 drug metabolism and transporter genes including:

- Cytochrome p450 (CYP)
- Alcohol dehydrogenases (ADH)
- Epoxide hydroxylases (EPXX)
- Flavin monooxygenases (FMO)
- Catechol-o-methyltransferase (CMOT)
- Glutathione s-transferases (GST)
- Sulfonyl transferases (SULT)
- N-acetyl transferase type 2 (NAT2)
- Thiopurine methyltransferases (TPMT)
- Uridine diphosphate-glucoronyl transferases (UGT)

Applied Biosystems SNPLex™ 48-plex SNP genotyping

SourceBioScience is a preferred supplier of SNPLex™. The SNPLex™ Genotyping System uses an oligonucleotide ligation assay (OLA) combined with multiplex PCR technology to achieve allelic discrimination and target amplification which can be useful for ADME Tox studies.

MicroRNAs

SourceBioScience can provide a miRNA quantitation service with a simple two-step protocol that requires only reverse transcription with a miRNA-specific primer, followed by real-time PCR with TaqMan® probes.

Microfluidic card formats

SourceBioScience offers GPCR Arrays in microfluidic card formats for three species: human, mouse and rat. The GPCR targets selected fall into approximately 50 subfamilies associated with drug targets or disease.

PhenoFiler™



PhenoFiler™ is a novel platform which combines high throughput target profiling with proprietary bioinformatics analysis and with high-content siRNA knockdown phenotypic screening in cell cultures. SourceBioScience can provide these services to support ADME Tox as well as other gene analysis studies.

**If you require any further information
please do not hesitate to contact us:**

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