

ADMEScreen Solutions

ADME (**A**dsorption, **D**istribution, **M**etabolism, and **E**xcretion) is one of the primary areas, and one of the most important areas in drug development in which drugs can fail. It's essential to identify these problematic drug candidates early in the drug discovery process as these candidates could have promising PK characteristics. However, sometimes a drug candidate's ADME/tox profile could prevent it from moving further into development.

Caliper Discovery Alliances & Services' (CDAS) **ADMEScreen** solutions are designed to assist you at all stages of ADME drug development ranging from early *in vitro* DMPK to pharmacokinetic characterizations.

Discovery ADME

- Complete platform of *in vitro* assays for early stage lead candidate assessment
- CYP450 inhibition (the largest CYP panel available!), CaCO-2, S9, microsomal stability
- Custom assay development capabilities
- Tools to triage, characterize, and rank lead compounds which have the potential to become useful drug candidates
- Other *in vitro* metabolic screens

Development ADME

- A developmental ADME program for compounds further in development
- Determine key drug candidate parameters
 - Maximum Tolerated Dose (MTD)
 - PK studies
 - Formulations

Pharmacokinetic Characterization

- For compounds ready for *in vivo* optimization
- Characterize and provide PK parameters in organs such as the brain, liver, heart, etc.
- Customized program to quickly obtain a first glimpse of a lead compound's fate



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