



ALTASCIENCES

BIOANALYSIS – THE KEY TO DRUG DEVELOPMENT

Trying to select the right **bioanalytical** platform for your complex large molecule?

Altasciences helps you expedite your research goals by providing proactive guidance on selecting the most suitable bioanalytical platform for your molecule. From discovery and preclinical safety testing to first-in-human trials and beyond, we ensure you have the right tools for every stage of development. Whether to use Ligand Binding Assays (LBA) or Liquid Chromatography-Mass Spectrometry (LC-MS) depends on your specific needs, and we are here to help you make the best selection.



Did you know?

We can provide customized workflows and methods using state-of-the-art instrumentation and various bioanalytical platforms.

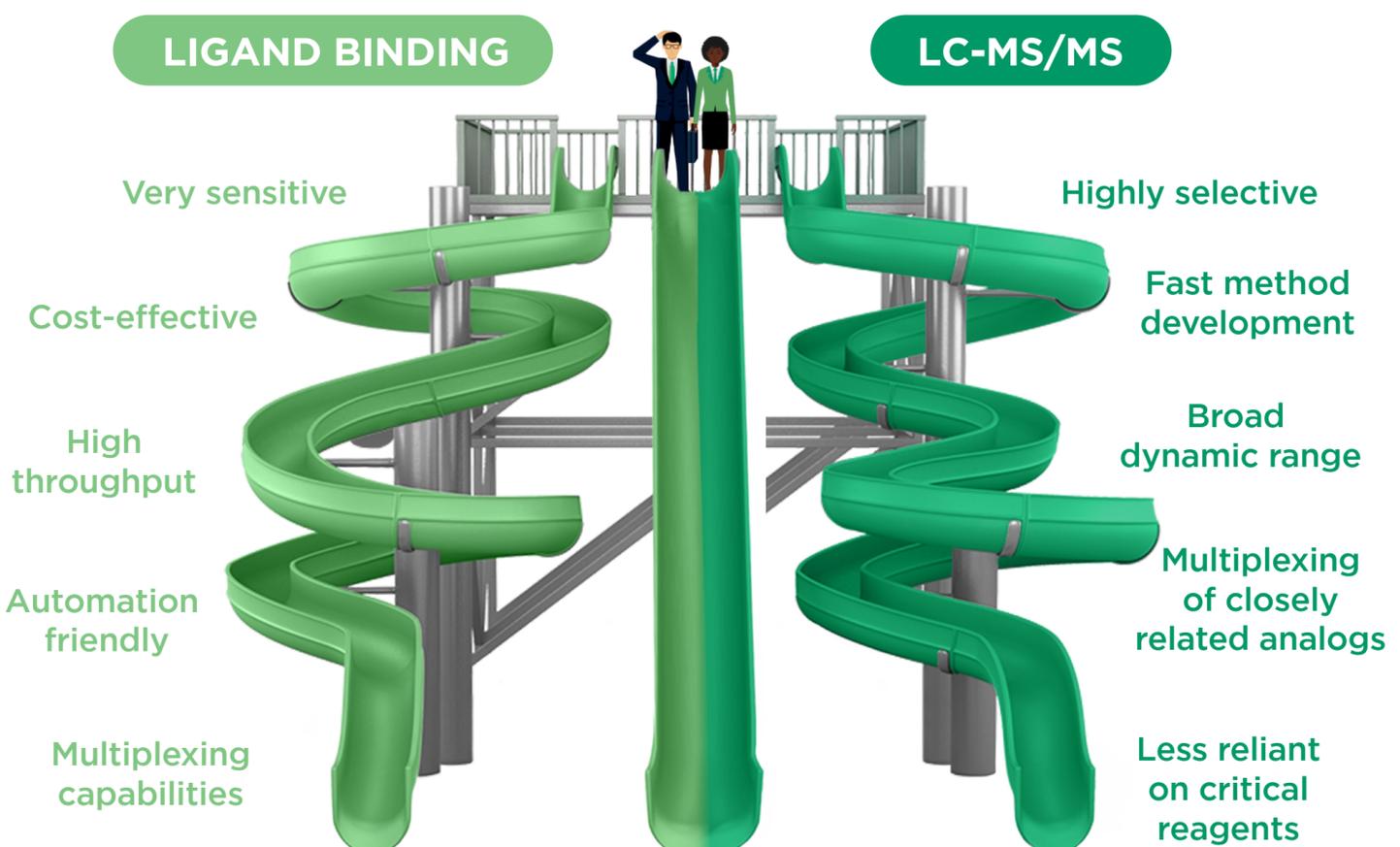
Ligand Binding Assays (LBA) offer a robust and cost-effective platform for high-throughput bioanalysis, particularly for large biomolecules such as oligonucleotides, proteins, and antibodies. With high sensitivity and specificity, LBA is well-suited for routine studies, enabling reliable quantitation in complex biological matrices.

LC-MS/MS (or hybrid LC-MS/MS) is a powerful analytical platform for the bioanalysis of large molecules, including oligonucleotides and antibodies. Its exceptional specificity and precision enable the simultaneous quantitation of closely related analytes in a single run, making it ideal for complex biological matrices and multiplexed assays.

KEY CONSIDERATIONS

- What are your study endpoints, budget, and timelines?
- What is the required sensitivity and lower limit of quantification (LLOQ) for your therapeutic?
- What is the expected concentration range in plasma, tissues, or other matrices?
- Do you have the appropriate critical reagents for your assay development?
- Will the study require measuring multiple analytes simultaneously?
- How specific does the assay need to be (e.g., differentiating closely related analogs)?
- Which platform is backed by the expertise needed to effectively support your study?
- Does the platform allow for automation and high-throughput analysis if required?

WHICH ANALYTICAL PLATFORM SHOULD YOU USE FOR YOUR UPCOMING STUDY?



Both platforms can be used at different stages of development.

Your molecule is unique—your bioanalytical platform should be too.