



Our technical offer

Our strong expertise in immunoassay development and particle technology allows us to offer a large range of technical platforms and provide us the ability to meet your needs.



COATED
MICROPARTICLES

Strong in high level knowledge in immunochemistry, Indicia Biotechnology has developed and then consolidated a specific skill for attaching biomolecules to the surface of microparticles. Nowadays, Indicia Biotechnology is known as an expert in the development and manufacturing of these reagents. The range of linking processes developed builds up a rich know-how that allows us to respond perfectly to varied and complex problems. In addition, Indicia Biotechnology has introduced some tools for qualifying the available microparticles on the market in order to select the most suitable support for your application (diameter, rate of ferrite, hydrophobicity).

Particle supports employed: magnetic, fluorescent, dyed, white.



MAGNETIC
SEPARATION
METHOD

Linked to a molecule which is capable of recognising a specific target, the magnetic microsphere constitutes a choice reagent that allows molecules or microorganisms to be extracted by means of a simple magnet. Indicia Biotechnology put their expertise at your fingertips for the development of sample preparation methods in the framework of specific problem areas, particularly in industrial microbiology.



ANTIBODIES
& SERVICES

Indicia Biotechnology's added value relies on its ability to prepare immunogenic molecules and use leading edge screening technologies. Whether they be monoclonal or polyclonal antibodies, our platform covers specific customers needs and enables us to respond to the most complex technical problems. Indicia Biotechnology also offers *in vivo* antibody production, isotyping, purification and labelling services.



AGGLUTINATION
TEST

Agglutination tests remain used mostly in laboratories, especially for the identification of bacterial strains. These qualitative tests (response type yes/no) rely on the principle of recognising an antibody in the presence of its antigen and its capacity to train visible agglutinating complexes. Indicia Biotechnology offers two test formats, both using dyed or white polystyrene particles: agglutination test on slide with a visual detection, and quantitative agglutination assays on microplate, a proprietary technology developed at Indicia Biotechnology.



ELISA®

Indicia Biotechnology currently develops ELISA tests under variable formats. So far, Indicia Biotechnology has developed ELISA tests for very wide applications: *in vitro* diagnostic, industrial quality control, environmental monitoring, research. Beyond the assay development, Indicia Biotechnology brings its immunochemical expertise to the preparation of all necessary biologicals, i.e. antibody production and purification, enzyme labelling, biotinylation...



LATERAL
FLOW

Lateral flow tests are very popular today since they are easy to use and are able to obtain a rapid response. With the aim of answering a high demand in rapid diagnosis, Indicia Biotechnology has demonstrated skills in developing new generations of tests. Combining the immunochromatography technique with a quantitative reading process, Indicia Biotechnology and its partners offer ground-breaking solutions suited to delocalised diagnosis (Point Of Care). There are several advantages: rapid response, simple to execute, quantitative dose, field analysis (portable system), result traceability, data security, sensitivity benefit.



MULTIPLEXED
ASSAY

Indicia Biotechnology makes a team of specialists available to its customers who are in charge of developing the multiplexed immunoassays. Indicia Biotechnology is equipped with a Bio-Plex® instrument utilizing the Multiple Analyte Profiling technology (xMAP) from Luminex® Corp. Whether it be multiplex several existing individual assays or developing new tests for new markets, our team will accompany you in your project by bringing skills and wanted resources. Fluorescent beads conjugation, feasibility study, complete assay development, reagent manufacturing, sample testing are among the services proposed on our multiplexed assay platform.



Indicia Biotechnology complies with ISO 9001: 2000 international quality standards.



Our degrees of intervention

Facing a problem and a technical development project to lead, we answer with the degree of intervention of your request. Leading an entire project, accompanying you in your regulatory steps (clinical study, CE mark...) or even performing a simple feasibility study, the flexibility that Indicia Biotechnology offers is a key component in the success of your projects.

We currently develop tests according to the following procedure:

1

Inventory and screening of available reagents

Origin and quality of raw materials (antibodies, proteins) are key points in the development of immunoassays or particle-based reagents. Biologicals can be provided by the customers or identified, evaluated and selected by our team. For a more custom approach you can also ask Indicia Biotechnology's antibody service.

2

Feasibility study

The objective is to determine a project's viability and/or to analyse possible alternative solutions to a technical problem. The results are used to help our customers to make a decision. Our team also undertakes feasibility study on emergent technologies to evaluate its performances.

4

Validation

Custom assays can be subjected to careful validation studies: precision (intra- and inter-assay) – limits of quantitation – specificity – dynamic range – linearity – parallelism – robustness – spike and recovery – stability – calibration with standard method.

3

Development and optimization

Indicia Biotechnology's staff understands the challenges of immunoassay development. Our proprietary approach ensures optimized bioanalytical methods.

5

Transfer of technology

Beyond reporting, Indicia Biotechnology is also there to ensure training at the heart of the receiver laboratory so that client personnel familiarise themselves with the new dosing method which is intended to be employed as a routine test.

6

Manufacturing

For the time being, Indicia Biotechnology is able to manufacture finished or semi-finished products on an OEM basis.