

Technology

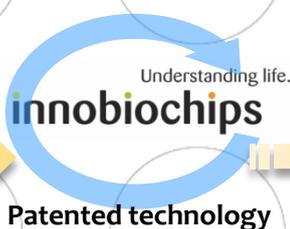
SirYus Technology

- Multiplex analysis
- Suitable for antigens or antibodies detection
- High throughput screening
- Small sample volume needed
- Economical
- Rapid and easy-to-use

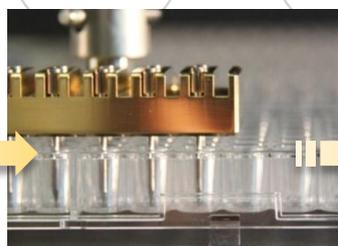
Standard 96-well microplate



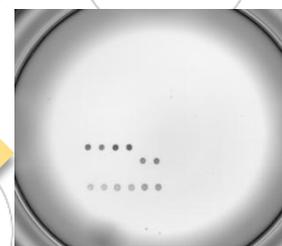
Microplate processing



Microarray printing



Bioassays



One well = one chip = 200 data
Same time, same protocol, same sample as ELISA

Immunoassays, as ELISA, represent a large part of diagnostic methods used currently for number of applications. Today, some innovations make immunoassays more specific and highly sensitive. New diagnostic possibilities are open.

Biochips, microarrays and related technologies are constantly offering more affordable, more precise and more powerful ways to boost biological analysis. They combine performance, simplicity and rapidity.

Microarrays in 96-wells format

Innobiochips have developed a biochip technology based on immunoassay and 96-Well format: SirYus. The SirYus technology increases the number of assays that can run in parallel. With the same material and in the same amount of time as an ELISA, up to 200 data are available.

The ELISA and immunoassays are widely used in biological analysis. They are easy to use, robust and automatable. The 96-wells format have become the standard.

Thus, we have chosen to adapt our microarrays to the biological analysis standard format: 96-wells microplate. Today, SirYus gives a fantastic way for microarrays manufacturing in 96-wells plates in polystyrene.

96-wells format is particularly advantageous. Materials and automates already exist and boost analysis.

For ELISA users, any changes are needed. They can use all the facilities present in their laboratory.

Micro assays on plastic substrates

Innobiochips develops microarrays on plastic substrates. Usually, microarrays are manufactured on glass slides. Brittle and sharp glass slides can be a safety hazard in biological sample handling. Use of plastic polymer enables to answer problems of safety and implementation.

SirYus is based on functional agent able to bring the best physic-chemical environment for the immobilization of biomolecules on various substrates. The functional agent is prepared in large quantity by chemical way and offers high capacity of manufacturing

Bioassays

- Limited sample needed : 50 μ L
- Incubation : 2 hours
- 1 to 3 incubation steps
- Colorimetric reading
4 min / plate
- Automatic signal quantification

Applications

- Multiplex serology
- In-parallel protein quantification
- Differential diagnostics
- Complex diagnostics
- Combined diagnostics

Understanding life.
innobiochips

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