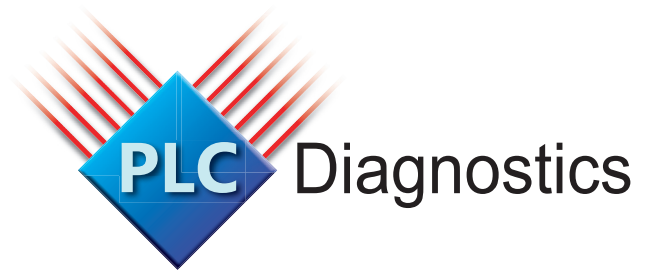
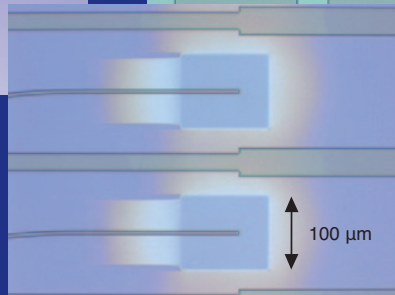
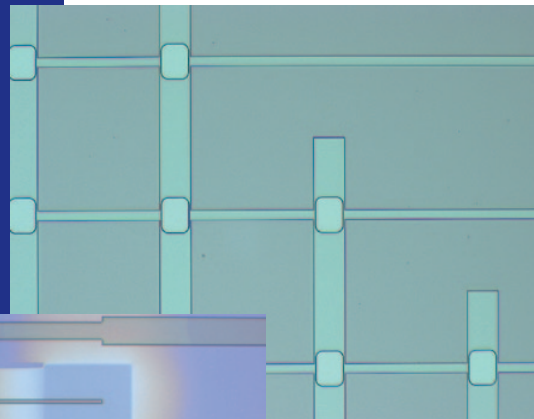
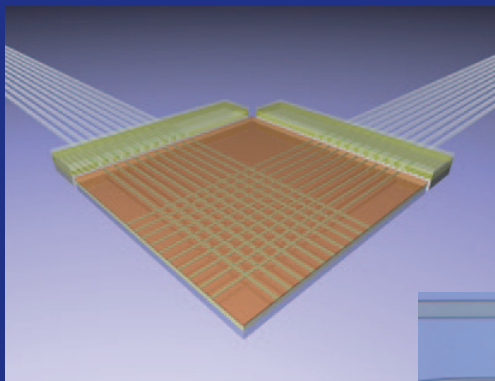


A solution for:



Biomarker analysis using monolithic integrated multiplexing micro-opto-fluidics



Application

PLC Diagnostics Inc. developed a novel, rapid diagnostic testing platform for sensitive, robust, inexpensive and simple detection of molecular biomarkers.

This new platform is based on novel microarray chip technology that replaces the expensive laser scanning. Use is made of an array with a monolithic integrated intersecting grid of 100 μm wide planar integrated optical waveguides.

This technology enables real-time quantification of molecular complex formation on the microarray surface, without reagent addition or washes. This significantly reduces assay complexity and cost so that the platform can be used in Point-of-Care (POC) settings.

Features

- Initial Focus - A highly sensitive and specific cardiac markers panel
- Diagnostics using 5 minutes assay
- Immuno and nucleic acids assays
- Multiplexing of 100 different assays
- Detection in complex matrices such as Serum, whole Blood and Urine
- Exquisite sensitivity – 1fM or better
- Low cost – suitable for Point of Care
- Robust, compact and user friendly operation

Chip development by:



Lionix BV

LioniX BV is a global leading provider in the development and production of innovative and leveraging products based on micro/nano technology. LioniX also provides MEMS foundry services.

Our customers operate in the Data/Telecom, Industrial Process Control, Life Sciences and Space markets, among others. They include innovative OEM's, VC-funded start-up companies, multi-national corporations, and research institutions located around the world.

The core competencies of LioniX include integrated optics, micro/nanofluidics and related surface functionalization. Additionally, LioniX has been successful in combining these core competences in one technology platform, enabling unparalleled innovative product concepts for their customers.

LioniX offers design-for-manufacturing and horizontal integration through partnerships with other micro/nanotechnology foundries and suppliers of complementary technologies such as micro electronics, biotech, chemistry/pharma, medical, food, water and space. These relationships are based on subcontracting agreements, licensing of IP and/or joint ventures.



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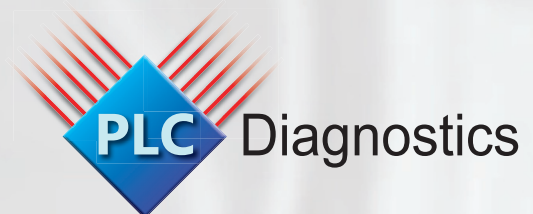
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PLC Diagnostics Inc.

PLC Diagnostics is developing a novel, rapid diagnostic testing platform for sensitive, robust, inexpensive and simple detection of molecular biomarkers.

This new platform is based on the company's novel microarray chip technology that replaces expensive laser scanning with an intersecting grid of 100 μm -wide waveguides embedded in the chip's substrate.

This technology enables real-time quantification of molecular complex formation on the microarray surface without reagent addition or wash steps, thereby significantly reducing assay complexity and cost so that the platform can be used in point-of-care (POC) settings.



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