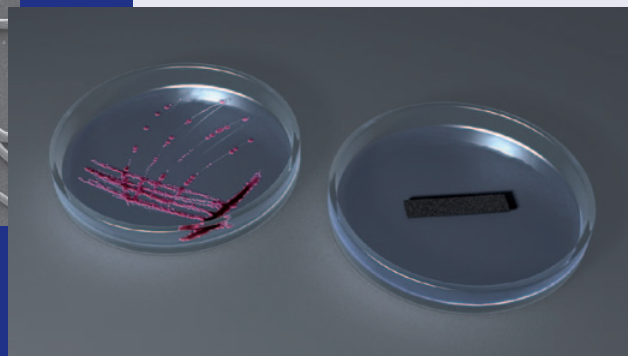
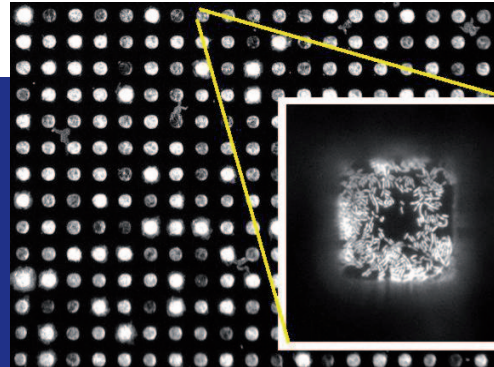
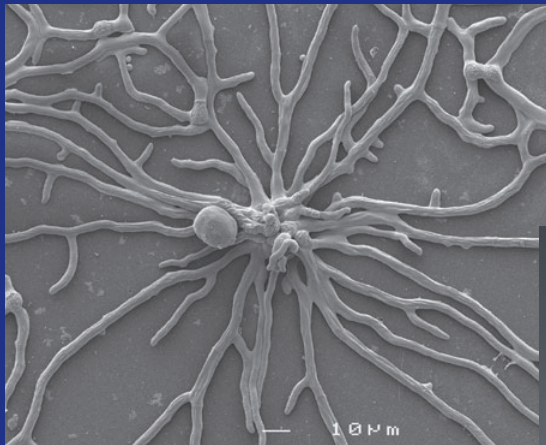


A solution for:



Rapid screening of microorganisms



Application

The microDISH Culture Chip (MDCC) is a disposable for rapid screening of microorganisms. Effectively, the MDCC contains a massive number of tiny "Petri dishes on-a-chip", which enables more culturing process automation with less waste.

The base material of the MDCC is nanoporous with 100 nm diameter pores, allowing nutrients from beneath the chip to reach the growing microorganisms on the upper surface. The microbes cannot penetrate the nanopores.

The upper surface on the MDCC is divided into growth compartments allowing segregation of different strains. Various versions of the MDCC are available for different assays.

The MDCC is versatile, allows rapid changing of culture medium, working with difficult organisms and is highly suitable for imaging and recovery of target microcolonies.

Features

- Up to 180,000 individual culture areas per chip of 8x36 mm.
- Culture areas from 20 to 180 μm across.
- Separated by walls from 10 to 40 μm high and 20 to 180 μm wide.
- Suitable for high throughput screening, viable counting, microbial diagnostics or isolating new microorganisms.
- Custom design possible.
- Limited waste for reduced biohazard.
- Supports fluorescence microscopy and other imaging methods.

Chip manufacturing by:

Lionix 

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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Microdish BV

Microdish is an SME founded in the Netherlands (2008) dedicated to improving microbial culture through the design, manufacture and use microengineered culture chips and nanoscale reagents.

To this end MicroDish makes direct sales of culture chips and is involved in co-development projects with industrial and academic partners.

MicroDish also undertakes service contracts.

MicroDish is building productive strategic partnerships with complementary technology providers and both commercial and academic organizations to achieve these aims.



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