

FAST | EASY | AFFORDABLE | SAFE | RELIABLE

Custom TruArray MicroArrays for Your Research and Development Activities

CUSTOM TRUARRAY MICROARRAYS

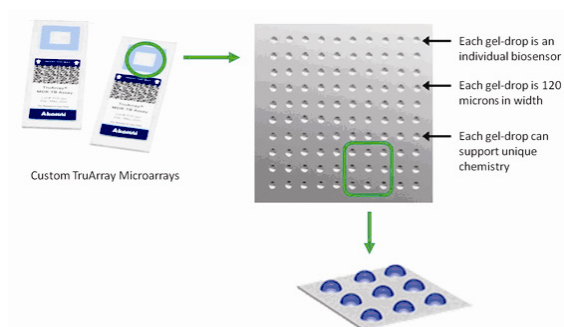
With a Custom TruArray Microarray designed and manufactured by Akonni Biosystems, you can accelerate your research and discovery efforts at a competitive price and without waiting 6 to 8 weeks or more for arrays to be delivered.

THE TRUARRAY ADVANTAGE: MORE EFFICIENT MOLECULAR RECOGNITION

Akonni Biosystems Custom TruArray Microarrays are low-density in format and carry from 5 to 200 micro gel-drops per array. Because of the aqueous-hydrogel nature of the TruArray gel-drop polymer, Custom TruArray Microarrays provide more efficient molecular recognition events and flexible reaction vessel compartments to load different assay reagents. Drops can even be mixed and matched with different molecules, chemicals, or enzymatic reagents resulting in the design of a truly unique "multiplexed assay-on-a-chip". In essence, each Custom TruArray Microarray feature behaves as a "nano-scale test tube", with each test tube being tailored to carry out a broad range of diagnostic biochemical tests.

QUALITY YOU CAN COUNT ON

Custom TruArray Microarrays are manufactured by co-polymerization, with printing and flow cell assembly occurring in our Class 10,000 temperature- and humidity-controlled clean room. Oligonucleotide probes are synthesized in-house or you can provide them to us for printing. Approximately 10% of a microarray production run (batch) undergoes quality control checks, including visual and spectrophotometric inspections of spot number, size, and morphology. Product barcodes are applied, followed by packaging in vacuum-sealed wrappers or microscope slide boxes.



Custom TruArray Microarray gel-drops behave as a "nano-scale test tubes", with each test tube being tailored to carry out a specific diagnostic or biochemical test.

HIGH QUALITY AT A COMPETITIVE PRICE

To ensure the production of high quality microarrays, Akonni Biosystems uses precision robotics to place each micro gel-drop accurately at a specific location on plastic, glass, or silica slides. Each gel-drop is 120 microns in diameter by 20 microns in height, about 0.2 nanoliters in volume, composed of approximately 99 percent water and typically 300 microns spacing from adjacent gel-drops. For greater ease-of-use and efficiency, multiple Custom TruArray Microarrays can be printed on a single microarray slide. Slides can then be heated with most commercial incubators, ovens, or thermal cyclers, and imaged and analyzed with most commercial fluorescent or colorimetric scanners and analysis software.

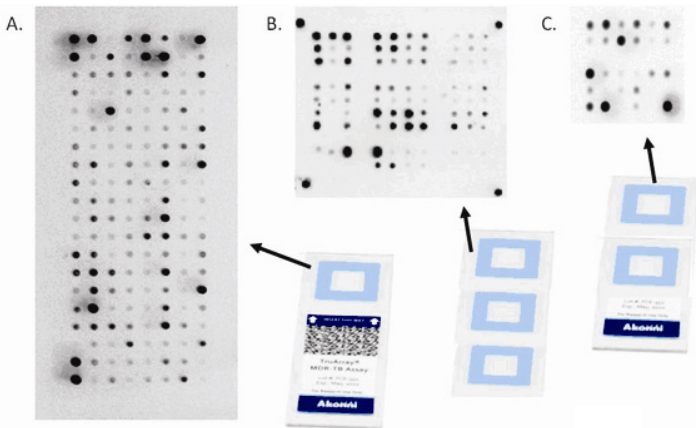
EXPERIENCE LEADS TO SUCCESS

Akonni Biosystems Custom TruArray Microarray team has developed more than 100 custom designs by working directly with customers, from concept through design completion, ensuring success at every step along the way. This has resulted in hundreds of peer-reviewed publications across many different applications, from nucleic acid testing to multiplexed immunoassays.



CUSTOM MICROARRAY SOLUTIONS

- Nucleic acid testing, including oligonucleotide synthesis
- Hybridization array
- *In-situ* (on-chip) amplification array
- Primer extension array
- Allele specific extension array
- Antibody immobilization for multiplexed immunoassays
- Peptide immobilization for mass spectroscopy studies
- Small molecule or enzymatic immobilization for drug discovery
- Cell or cell lysate immobilization for drug discovery or cellular studies



Custom TruArray Microarrays are low-density in format and carry from 5 to 200 micron gel-drops per array. Custom TruArray Microarrays support applications ranging from nucleic acid testing to multiplexed immunoassaying to small molecule or enzymatic immobilization in support of drug discovery efforts.

TO ORDER

To get started, contact an Akonni Biosystems Custom TruArray Microarray specialist by phone at (301) 698-0101 or by email at sales@akonni.com. For nucleic acid testing applications, simply provide a list of sequences and we'll take care of the rest. For other applications, your Akonni specialist will help guide you to the right solution.

To order call +1 301.698.0101

info@akonni.com | sales@akonni.com | support@akonni.com

For Research Use Only. Not for use in diagnostic procedures. No claim or representation is intended for the diagnosis, prevention or treatment of a disease.

Protected by 1 or more U.S. Pat: 6,460,094; 6,442,734; 6,795,949; 7,096,435. Other patents issued and pending.

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