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Microarray slides & Micro plates

3D biOptical Surfaces for improving bioassays

Micro plates (a.k.a microtiter plates) and microarray slides for analysis and high-throughput screening as well as special products;

for the cultivation and analysis of cell and tissue cultures and cell culture-based assays.

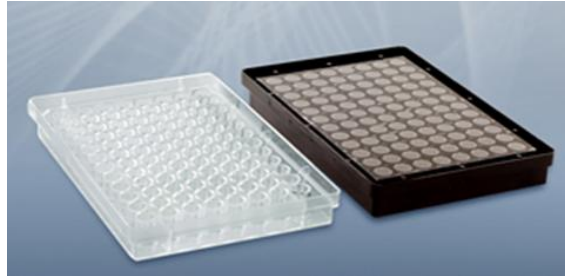
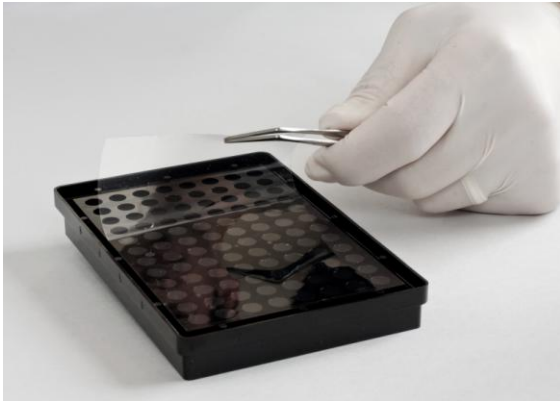
- For low detection limits
- Provides high binding, loading and absorptive capacities for bio molecules

With enhanced characteristics:

- Zero fluorescence background (ELISA – fluorescent detection)
- Extremely high light absorptance
- Improved signal to noise ratio (S/N)
- With controlled structural and chemical properties

1. Acktar 3D™ Transparent Bottom Micro plates

- Culture plate for cultivation and analysis of cell and tissue cultures as well as cell-based assays
- Hydrophilic or hydrophobic surface
- Enhanced cells anchoring
- High assay sensitivity
- Coated with proprietary inorganic optically clear 3D coating



2. 96 Black Well Plates & Black Strip Plates

3D high surface area black coated microtiter plates for high sensitivity of fluorescence detection (improved LOD).

- Polystyrene microtiter plates for general assays and immunoassays
- Zero auto-fluorescence
- Cross talk suppression
- High absorption (ideal suppression of stray light) micro well plate
- High binding capacity micro plate
- High surface areas
- Beyond plate readers sensitivity (LOD – limit of detection)
- No background noise
- Available also with thermally conductive bottom
- Compatible with patterning processes – lithography & ablation



Acktar 3D™ Micro plates supplied at ordinary dimensions required for measuring instruments.

Acktar 3D™ microtiter plates are characterized with an extremely high binding capacity and zero to low auto-fluorescence recommended for fluorescence based applications (e.g. ELISA plate – fluorescence detection).

Acktar 3D™ Microplates are available in various colors and required surface finishes:

* **Acktar 3D™ Black 96 Well Plates**

* **Acktar 3D™ Black 96 Well Strip Plates** – preassembled in a white frame, or as separate strips

Product	Description	Catalogue Number
Acktar 3D™ 96-Well Plate (pack of 5 plates)	96-well flat bottom black plate. Well volume 320 µL.	WP-96-AS-C
Acktar 3D™ Strip Plates (pack of 5 plates with 12-well strips)	96-well flat bottom black strip plate (12 x 8-well strips per plate). Well volume 320 µL.	WS-12-AS-C
Acktar 3D™ Strip Plates (pack of 5 plates with 8-well strips)	96-well flat bottom black strip plate (8 x 12-well strips per plate). Well volume 320 µL.	WS-08-AS-C
Acktar 3D™ Strips (pack of 40 strips with 12-well strips)	12-well flat bottom black strips. Well volume 320 µL.	S-12-LO-C
Acktar 3D™ Strips (pack of 40 strips with 8-well strips)	8-well flat bottom black strips. Well volume 320 µL.	S-08-LO-C

3. Acktar 3D™ Microarray Slides

- Microarray slides for high throughput screening as well as general assays and analysis
- Provides high binding capacity of biomolecules for higher intensity of signals and better spot morphology and zero fluorescence background
- Pico molar level detection
- Proprietary 3D thin inorganic film
- Film thickness < microns
- New highly advantageous replacement of nitrocellulose
- Operational temperature: cryogenic – 350 degrees Centigrade
- Available in various colors: Black / White / Clear
- Wide range tailored contact angle from: 3° to 140°
- Tailored functional groups
- Zero to Low auto-fluorescence



Black, clear and white 3D microarray slides with increased sensitivity, high intensity of signal and zero auto fluorescence

Acktar 3D coated glass slides offers microarray slides with black, white, and clear 3D film.

The slides have zero to low auto-fluorescence and high surface area binding capacity, resulting in increased intensity of the signal and sensitivity of the measurements.

The microarray slides are especially suited for applications requiring low background fluorescence and high signal.

The surfaces can be tailored to have various functional groups terminations (e.g. epoxy, amine, etc) and modified for exhibiting required wetting properties (hydrophilic/hydrophobic surfaces; contact angles of 3–140 deg).

Bio molecules can be linked to Acktar's BioBlack slides and utilized for printing microarrays and immobilization of DNA and proteins.

The slides can be especially utilized to microarray printing application.

Poly-L-lysine coated Acktar 3D™ slides can be utilized for cell adhesion, cell microarray slides or as a biocompatible coating for linking other biomaterials.

[Marketing & Sales]

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