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Assay Plates: Microplates for ELISA, Fluorescence, & More

384 Well Optically Clear Tissue Culture Plate



4ti-0203 | 384 Well Optically Clear Tissue Culture Plate | Front

190µm clear base imaging microplate, black frame

Available barcoded on request

Overview

Optically Clear Tissue Culture Plates have been designed for high content screening (HCS) assays in drug development and related areas. They are also suitable for homogeneous assays, employing fluorescence intensity, FRET and TR-FRET where measurements are bottom-read. The high-quality optical base plate assures the necessary accuracy and consistency for automated high throughput systems, generating optimum signal-to-noise ratios. Using state-of-the-art manufacturing technology, we have developed a product which offers several key advantages to the end user. Learn more about the features and benefits of the Optically Clear Tissue Culture Plate range.

Optically Clear Tissue Culture Plates are assembled using unique patented laser welding technology which reduces auto fluorescence and does not inhibit cell growth. Available with 190µm polystyrene base. Available TC treated: our advanced tissue-culture (TC) treatment method evenly coats each well for optimal cell adhesion properties for highest reproducibility between wells, plates and batches.

Key Features

- Quality
 - Leak free
 - Free from DNase, RNase, human genomic DNA, and cyto-toxic

Wells

- Optimum signal-to-noise ratios
- Good cell adhesion
- Wicking and bubble formation eliminated

Frame

- SBS footprint
- o Alphanumeric grid reference

Use

- Recommended for confocal microscopy due to reduced cross-talk and superior base flatness
- Reduced auto fluorescence ensures their suitability for fluorescent assays
- Suitable for assays that measure absorbance in the visible light range (400-900nm wavelengths)
- Suitable for colorimetric assays
- Suitable for homogeneous assays
- Suitable for use in BMG lab tech, Molecular Devices, Promega Glomax and other plate readers
- Suitable for adhesive and heat sealing: our Moisture Barrier Seal 384 (4ti-0516/96) is recommended as it is optically clear and allows repeated imaging without removal, reducing contamination risks

Options

- Available with 190µm polystyrene base
- All plates come sterilized, apart from 4ti-0204
- o TC treated option available (4ti-0201)
- Collagen 1 treated option available (4ti-0205)
- Poly D-Lysine treated option available (4ti-0206)
- Available barcoded upon request; learn more about our barcoding options

Specifications

Parameter	384 Well Optically Clear Tissue Culture Plate
Plate length	127.76 ± 0.25mm
Plate width	85.48 ± 0.25mm
Plate height	14.35 ± 0.25mm
Well depth	11.35 ± 0.25mm
Well diameter	3.70 ± 0.10mm
Distance to center of A1 from top edge	8.99 ± 0.25mm
Distance to center of A1 from left edge	12.13 ± 0.25mm
Pitch (distance between A1 and A2)	4.50mm

Ordering Information

Use these part numbers to request a quote, a sample or to contact an expert:

Part number	Description	
384 Well Optically Clear Tissue Culture Plate 190μm clear base imaging microplate, black frame		
4ti-0201	sterile, TC treated; 24 plates with lids	
4ti-0203	sterile; 30 plates	
4ti-0204	non-sterile, untreated; 30 plates	
4ti-0205	sterile, Collagen 1 treated; 24 plates with lids	
4ti-0206	sterile, Poly D-Lysin treated; 24 plates with lids	
Lids		
4ti-0280	384 Well Microplate Lid; 100 lids	
4ti-0281	384 Well Microplate Lid, sterile; 100 lids	

96 Well Optically Clear Tissue Culture Plate



4ti-0223 | 96 Well Optically Clear Tissue Culture Plate | Front

190µm clear base imaging microplate, black frame

Available barcoded on request

Overview

Optically Clear Tissue Culture Plates have been designed for high content screening (HCS) assays in drug development and related areas. They are also suitable for homogeneous assays, employing fluorescence intensity, FRET and TR-FRET where measurements are bottom-read. The high-quality optical base plate assures the necessary accuracy and consistency for automated high throughput systems, generating optimum signal-to-noise ratios. Using state-of-the-art manufacturing technology, we have developed a product which offers several key advantages to the end user. Learn more about the features and benefits of the Optically Clear Tissue Culture Plate range.

Optically Clear Tissue Culture Plates are assembled using unique patented laser welding technology which reduces auto fluorescence and does not inhibit cell growth. Available with 190µm polystyrene base. Available TC treated: our advanced tissue-culture (TC) treatment method evenly coats each well for optimal cell adhesion properties for highest reproducibility between wells, plates and batches.

Key Features

Quality

- Leak free
- Free from DNase, RNase, human genomic DNA, and cyto-toxic

Wells

- Optimum signal-to-noise ratios
- Good cell adhesion
- Wicking and bubble formation eliminated

Frame

- SBS footprint
- Alphanumeric grid reference

Use

- Recommended for confocal microscopy due to reduced cross-talk and superior base flatness
- Reduced auto fluorescence ensures their suitability for fluorescent assays
- Suitable for assays that measure absorbance in the visible light range (400-900nm wavelengths)
- Suitable for colorimetric assays
- Suitable for homogeneous assays
- Suitable for use in BMG lab tech, Molecular Devices, Promega Glomax and other plate readers
- Suitable for adhesive and heat sealing: our Moisture Barrier Seal 96 (4ti-0516/96) is recommended as it is optically clear and allows repeated imaging without removal, reducing contamination risks

Options

- Available with 190µm polystyrene base
- All plates come sterilized, apart from 4ti-0224
- TC treated option available (4ti-0221)
- Collagen 1 treated option available (4ti-0225)
- Poly D-Lysine treated option available (4ti-0226)
- Available barcoded upon request; learn more about our barcoding options

Specifications

Plate length	127.76 ± 0.25mm
Plate width	85.48 ± 0.25mm
Plate height	14.35 ± 0.25mm
Well depth	10.8 ± 0.25mm
Well diameter	6.3 ± 0.10mm
Distance to center of A1 from top edge	11.24 ± 0.25mm
Distance to center of A1 from left edge	14.38 ± 0.25mm
Pitch (distance between A1 and A2)	9.00mm

Ordering Information

Part number	Description
96 Well Optically Clear Tissue Culture Plate 190µm clear base imaging microplate, black frame	
4ti-0221	sterile, TC treated; 24 plates with lids
4ti-0223	sterile; 30 plates
4ti-0224	non-sterile, untreated; 30 plates
4ti-0225	sterile, Collagen 1 treated; 24 plates with lids
4ti-0226	sterile, Poly D-Lysin treated; 24 plates with lids
Lids	
4ti-0282	96 Well Microplate Lid; 80 lids

24 Well Optically Clear Tissue Culture Plate



4ti-0243 | 24 Well Optically Clear Tissue Culture Plate | Front

190µm clear base imaging microplate, black frame

Available barcoded on request

Overview

Optically Clear Tissue Culture Plates have been designed for high content screening (HCS) assays in drug development and related areas. They are also suitable for homogeneous assays, employing fluorescence intensity, FRET and TR-FRET where measurements are bottom-read. The high-quality optical base plate assures the necessary accuracy and consistency for automated high throughput systems, generating optimum signal-to-noise ratios. Using state-of-the-art manufacturing technology, we have developed a product which offers several key advantages to the end user. Learn more about the features and benefits of the Optically Clear Tissue Culture Plate range.

Optically Clear Tissue Culture Plates are assembled using unique patented laser welding technology which reduces auto fluorescence and does not inhibit cell growth. Available with 190µm polystyrene base. Available TC treated: our advanced tissue-culture (TC) treatment method evenly coats each well for optimal cell adhesion properties for highest reproducibility between wells, plates and batches.

Key Features

Quality

- Leak free
- Free from DNase, RNase, human genomic DNA, and cyto-toxic

Wells

- Optimum signal-to-noise ratios
- Good cell adhesion
- Wicking and bubble formation eliminated

Frame

- SBS footprint
- Alphanumeric grid reference

Use

- Recommended for confocal microscopy due to reduced cross-talk and superior base flatness
- Reduced auto fluorescence ensures their suitability for fluorescent assays

- Suitable for assays that measure absorbance in the visible light range (400-900nm wavelengths)
- Suitable for colorimetric assays
- Suitable for homogeneous assays
- Suitable for use in BMG lab tech, Molecular Devices, Promega Glomax and other plate readers
- Suitable for adhesive and heat sealing: our Moisture Barrier Seal 24 (4ti-0516/96) is recommended as it is optically clear and allows repeated imaging without removal, reducing contamination risks

Options

- Available with 190µm polystyrene base
- All plates come sterilized, apart from 4ti-0244
- TC treated option available (4ti-0241)
- Collagen 1 treated option available (4ti-0245)
- Poly D-Lysine treated option available (4ti-0246)
- Available barcoded upon request; learn more about our barcoding options

Specifications

Parameter	24 Well Optically Clear Tissue Culture Plate
Plate length	127.76 ± 0.25mm
Plate width	85.48 ± 0.25mm
Plate height	15.00 ± 0.25mm
Well depth	12.50 ± 0.25mm
Well diameter	14.50 ± 0.10mm
Distance to center of A1 from top edge	15.74 ± 0.25mm
Distance to center of A1 from left edge	18.88 ± 0.25mm
Pitch (distance between A1 and A2)	18.00mm

Ordering Information

Part number	Description
24 Well Optically Clear Tissue C	

4ti-0241	sterile, TC treated; 24 plates with lids
4ti-0243	sterile; 30 plates
4ti-0244	non-sterile, untreated; 30 plates
4ti-0245	sterile, Collagen 1 treated; 24 plates with lids
4ti-0246	sterile, Poly D-Lysin treated; 24 plates with lids
Lids	
4ti-0284	24 Well Microplate Lid; 80 lids
4ti-0286	24 Well Microplate Lid, sterile; 80 lids

384 Well Ultra Optically Clear Plate



4ti-0214 | 384 Well Ultra Optically Clear Plate | Front

Ultra-clear base imaging microplate, black frame

Available barcoded on request

Overview

The main advantage of using Ultra Optically Clear Plates is in the optically ultra-clear base of the plate, which gives superior results by delivering low absorbance and high transmission, together with low background signals. Not only this, but due to its incredible optical clarity, the ultra-clear base of these plates delivers improved transmission of signals at low wavelengths compared to standard optical films (see graph in Specifications). It allows DNA measurements at 260/280nm wavelengths in a medium or high throughput.

Quality

Free from DNase, RNase and human genomic DNA

Base

- Ultra-clear base improves transmission for low wavelengths
- Peel-back film on the base for scratch free surface
- Optimum signal-to-noise ratios

Frame

o Alphanumeric grid reference to aid well and sample identification

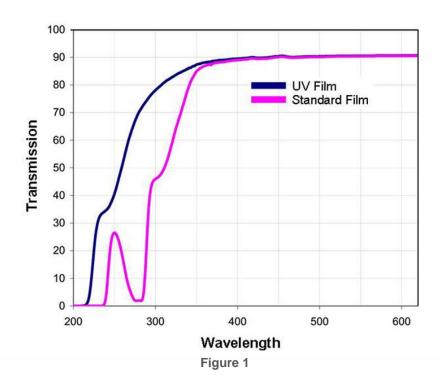
Use

Suitable for adhesive and heat sealing

Options

- Available barcoded upon request; learn more about our barcoding options
- Low profile lid available (4ti-0280)

Specifications



Due to its incredible optical clarity, the ultra-clear base of these plates delivers improved transmission of signals at low wavelengths compared to standard optical films (click on image to expand).

Ordering Information

Part number	Description
384 Well Ultra Optically Clear Plate Ultra-clear base imaging microplate, black frame	
4ti-0214	non-sterile; 30 plates

Lids	
4ti-0280	384 Well Microplate Lid; 100 lids

96 Well Ultra Optically Clear Plate



4ti-0234 | 96 Well Ultra Optically Clear Plate | Front

Ultra-clear base imaging microplate

Available barcoded on request

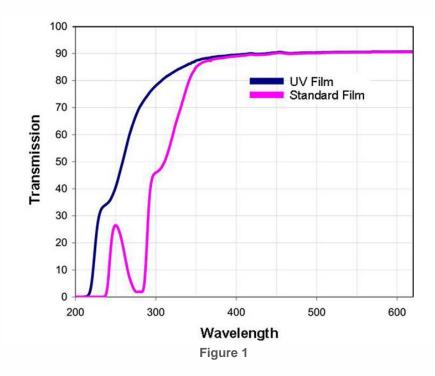
Overview

The main advantage of using Ultra Optically Clear Plates is in the optically ultra-clear base of the plate, which gives superior results by delivering low absorbance and high transmission, together with low background signals. Not only this, but due to its incredible optical clarity, the ultra-clear base of these plates delivers improved transmission of signals at low wavelengths compared to standard optical films (see graph in Specifications). It allows DNA measurements at 260/280nm wavelengths in a medium or high throughput.

Key Features

- Quality
 - Free from DNase, RNase and human genomic DNA
- Base
 - Ultra-clear base improves transmission for low wavelengths
 - Optimum signal-to-noise ratios
- Frame
 - Alphanumeric grid reference to aid well and sample identification
- Use
 - Suitable for adhesive and heat sealing
- Options
 - Available barcoded upon request; learn more about our barcoding options
 - <u>Lid</u> available (4ti-0290)

Specifications



Due to its incredible optical clarity, the ultra-clear base of these plates delivers improved transmission of signals at low wavelengths compared to standard optical films (click on image to expand).

Ordering Information

Use these part numbers to request a quote, a sample or to contact an expert:

Part number	Description	
96 Well Ultra Optically Clear Plate Ultra-clear base imaging microplate		
4ti-0234	non-sterile, clear; 30 plates	
Lids		
4ti-0290	Universal Microplate Lid; 50 lids	

384 Well Assay Plate



0.12ml rounded square wells, flat base, polystyrene, cut corner A1/P1

Available barcoded on request

Overview

The Azenta Life Sciences 384 well **black assay plate** has been specifically designed for fluorescence and scintillation applications. It is also suitable for homogeneous assays employing fluorescence intensity, FRET and TR-FRET where measurements are top-read. This high quality plate assures the necessary accuracy and consistency for automated high throughput systems, generating optimum signal to noise ratios.

The 384 well **white solid bottom assay microplate** has been specifically designed for luminescence applications, such as Luciferase Reporter Assays. It reduces well-to-well crosstalk, and the solid white color boosts signal in cases of low signal from some or all the wells.

The non-treated **clear microplate** is ideal for colorimetric assays and sample storage.

The rounded square wells eliminate wicking (capillary action). The flat bottom is ideal for optical reading

Key Features

Quality & Material

- Made from polystyrene, a hard material with optical clarity
- Leak-free
- o Free from DNase, RNase, human genomic DNA, and endotoxin/pyrogen

Wells

- o Flat bottom wells, suitable for optical imaging and cell culture application
- Rounded square wells, to ensure the best use of space and improve sample mixing, suitable for small volumes

Frame

- Alphanumeric grid reference to aid well and sample identification
- SBS footprint

Use

- Best used for cell culture, fluorescence, luminescence, imaging and light assays, ELISA, and homogeneous assays
- o Recommended for top reading fluorescence instrumentation
- Compatible with plate readers and ideal for use with automation
- Suitable for use in BMG labtech, Molecular Devices, Promega Glomax and other plate readers; for full instrument compatibility please contact an expert

Options

- o Black assay microplate, for low background fluorescence and minimum light scattering
- White microplate, for low background fluorescence and minimization of light scattering; suitable for fluorescent and light assays and imaging, and recommended for top reading fluorescence instrumentation
- The clear microplate offers the best solution for absorption, ELISA, spectophotometric and colorimetric assays, and storage applications
- o Non-sterile as standard; sterilization available upon request
- Available barcoded upon request; learn more about our barcoding options
- Our Moisture Barrier Seal 384 (4ti-0516/384) is recommended as sealing option, as it is optically clear and allows repeated imaging without removal, reducing contamination risks
- o Lids available

Specifications

Parameter	384 Well Assay Plate
Plate length	127.76 ± 0.25mm
Plate width	85.48 ± 0.25mm
Plate height	14.35 ± 0.25mm
Well depth	11.35 ± 0.25mm
Well diameter	3.70 ± 0.10mm
Distance to center of A1 from top edge	8.99 ± 0.25mm
Distance to center of A1 from left edge	12.13 ± 0.25mm
Pitch (distance between A1 and A2)	4.50mm

Ordering Information

Part number	Description
384 Well Assay Plate 0.12ml rounded square wells, flat base, polystyrene, cut corner A1/P1	
4ti-0254	clear; 100 plates
4ti-0264	black; 100 plates
4ti-0274	white; 100 plates
Lids	
4ti-0280	384 Well Microplate Lid; 100 lids

96 Well Assay Plate



4ti-0263 | 96 Well Assay Plate | Front

0.35ml round wells, flat base, polystyrene, cut corner A1/H1

Available barcoded on request

Overview

The Azenta Life Sciences 96 well **black assay plate** has been specifically designed for fluorescence and scintillation applications. It is also suitable for homogeneous assays employing fluorescence intensity, FRET and TR-FRET where measurements are top-read. This high quality plate assures the necessary accuracy and consistency for automated high throughput systems, generating optimum signal to noise ratios.

The **white assay microplates** have been designed for luminescence applications, such as Luciferase Reporter Assays. The white plate maximizes signal intensity in cases of low signal from some or all the wells, and it is designed to give optimum results for most top reading instruments, and to conform to standard SBS footprint.

Key Features

Quality & Material

- Made from polystyrene, a hard material with optical clarity
- Leak-free
- Free from DNase, RNase, human genomic DNA, and endotoxin/pyrogen

Wells

- Flat bottom wells, suitable for optical imaging and cell culture application
- Round wells, for reduced droplet effects and wicking

Frame

- Alphanumeric grid reference to aid well and sample identification
- SBS footprint

Use

- Best used for cell culture, fluorescence, luminescence, imaging and light assays, ELISA, and homogeneous assays
- Recommended for top reading fluorescence instrumentation
- o Compatible with plate readers and ideal for use with automation

Options

- Available as a black plate, for low background fluorescence and minimum light scattering
- Also available as a white microplate, for low background fluorescence and minimization of light scattering; suitable for fluorescent and light assays and imaging, and recommended for top reading fluorescence instrumentation
- Non-sterile as standard; sterilization available upon request
- o Available barcoded upon request; learn more about our barcoding options
- Our Moisture Barrier Seal 96 (4ti-0516/96) is recommended as sealing option, as it is optically clear and allows repeated imaging without removal, reducing contamination risks
- o Lids available

Specifications

Parameter	96 Well Assay Plate
Plate length	127.76 ± 0.25mm
Plate width	85.48 ± 0.25mm
Plate height	14.35 ± 0.25mm
Well depth	10.8 ± 0.25mm
Well diameter	6.3 ± 0.10mm
Distance to center of A1 from top edge	11.24 ± 0.25mm
Distance to center of A1 from left edge	14.38 ± 0.25mm
Pitch (distance between A1 and A2)	9.00mm

Ordering Information

Part number	Description	
96 Well Assay Plate 0.35ml round wells, flat base, polystyrene, cut corner A1/H1		
4ti-0263	black; 100 plates	

4ti-0273	white; 100 plates
Lids	
4ti-0282	96 Well Microplate Lid; 80 lids
4ti-0283	96 Well Microplate Lid, sterile; 80 lids

24 Well Assay Plate



4ti-0262 | 24 Well Assay Plate | Front

1.88ml round wells, flat base, polystyrene, cut corner A1

Available barcoded on request

Overview

The Azenta Life Sciences 24 well polystyrene assay plates have flat bottom wells and have been designed for fluorescence applications. The plates give optimum results for most top-reading instruments and conform to standard SBS footprint. Black plates have a low background fluorescence and minimize light scattering. This high quality plate assures the necessary accuracy and consistency for automated high throughput systems.

Key Features

Quality & Material

- Made from polystyrene, a hard material with optical clarity
- Non-sterile as standard
- Leak-free
- Free from DNase, RNase, human genomic DNA, and endotoxin/pyrogen

Wells

- Flat bottom wells, designed for optical imaging and cell culture application
- Round wells, for reduced droplet effects and wicking

Frame

- Alphanumeric grid reference to aid well and sample identification
- SBS footprint

Use

 Best used for cell culture, fluorescence, luminescence, imaging and light assays, ELISA, and homogeneous assays Compatible with plate readers and ideal for use with automation

Options

- Available as a black microplate, ideal for low background fluorescence; it minimizes light scattering, suitable for fluorescent and light assays and imaging, recommended for top reading fluorescence instrumentation
- Sterilization available upon request
- o Available barcoded upon request; learn more about our barcoding options
- Our Moisture Barrier Seal 24 (4ti-0516/24) is recommended as sealing option, as it is optically clear and allows repeated imaging without removal, reducing contamination risks
- Lids available

Specifications

Parameter	24 Well Assay Plate
Plate length	127.76 ± 0.25mm
Plate width	85.48 ± 0.25mm
Plate height	15.00 ± 0.25mm
Well depth	12.50 ± 0.25mm
Well diameter	14.50 ± 0.10mm
Distance to center of A1 from top edge	15.74 ± 0.25mm
Distance to center of A1 from left edge	18.88 ± 0.25mm
Pitch (distance between A1 and A2)	18.00mm

Ordering Information

Part number	Description	
24 Well Assay Plate 1.88ml round wells, flat base, polystyrene, cut corner A1		
4ti-0262	black; 100 plates	

Lids		
4ti-0284	24 Well Microplate Lid; 80 lids	
4ti-0286	24 Well Microplate Lid, sterile; 80 lids	

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