4titude 24 Well Optically Clear Tissue Culture Plate

190 µm clear base imaging microplate, black frame

- 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
- Optically Clear Tissue Culture Plates are assembled using unique patented laser welding technology which reduces autofluorescence and does not inhibit cell growth
- Available with 190 µm 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

- 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 autofluorescence ensures their suitability for fluorescent assays
- Suitable for assays that measure absorbance in the visible light range (400-900 nm 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-0516/24) is recommended as it is optically clear and allows repeated imaging without removal, reducing contamination risks



Options

- Available with 190 µm polystyrene base
- All plates come gamma irradiated, 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

Specifications

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

Ordering Information

4ti-0241	**Optically Clear Tissue Culture Plate, 24 well, tissue culture treated, gamma treated, with lid,** 190um clear base, black frame, 24 plates and lids per case
4ti-0243	**Optically Clear Tissue Culture Plate, 24 well, gamma treated,** 190um clear base, black frame, 30 plates per case
4ti-0244	**Optically Clear Tissue Culture Plate, 24 well,** 190um clear base, black frame, 30 plates per case
Lids	
4ti-0284	**Microplate 24 Lid, with condensation rings, clear,** low profile, cut corner A1, 80 lids per case
4ti-0286	**Microplate 24 Lid, gamma treated, with condensation rings, clear,** low profile, cut corner A1, 80 lids per case

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