avantor™

Cell Culture solutions from Avantor

01. CELL CULTURE MEDIA

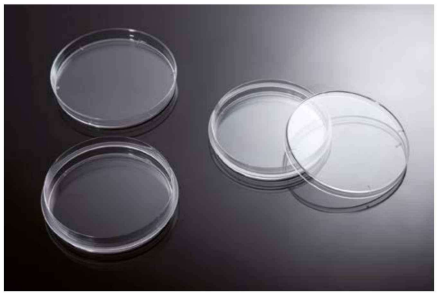
02. FOETAL BOVINE SERUM-SERADIGM

03. SYRINGE FILTERS

04. CO_2 INCUBATORS



VWR®



CELL CULTURE DISHES, VWR®

VWR cell and tissue culture dishes are available with a choice of surface treatments.

- Flat bottom and uniform wall thickness ensures distortion-free viewing
- Optically clear, making them suitable for microscopy
- Dish surface is smooth and free from striations to maximise usable growth area
- Rim on the bottom side of the lid (except 35 or 150 mm dishes) mates with the dish brim for easy and secure stacking
- Sterilised by electron beam irradiation, DNase- and RNase-free and non pyrogenic

Increased cell attachment surface: This highly hydrophilic surface offers a significant advantage over the traditional cell culture surface. The surface treatment can improve cell spreading and attachment, and is suitable for cells that may adhere poorly due to cell phenotype, stressful culture conditions, or those which normally require additional biological coatings for attachment.

TC-treated: These dishes are vacuum-gas plasma-treated for consistent cell attachment and growth.

Non-treated: Non-treated cell and tissue culture dishes are ideal for applications where cell attachment is not desired.

Operating temperature range: –20 to +50 °C. Not autoclavable.

ISO 13485:2003 and ISO 9001:2008 certified.

Description	Ø (mm)	Height (mm)	Growth area (cm^2)	Packed	Pk	Cat. No.
Increased cell attachment treated surface						
Cell culture dish, increased cell attachment surface	35	12,3	8,5	10/bag	240	**734-2814**
Cell culture dish, increased cell attachment surface, with gripping ring	60	18	21,2	10/bag	240	**734-2815**
Cell culture dish, increased cell attachment surface, with gripping ring	90	17	55,0	10/bag	240	**734-2816**
Cell culture dish, increased cell attachment surface, with gripping ring	100	22	60,8	10/bag	240	**734-2817**
Cell culture dish, increased cell attachment surface	150	22	143,0	5/bag	80	**734-2818**
TC-treated surface						
Cell culture dish, TC-treated	35	12,3	8,5	10/bag	960	**734-2317**
Cell culture dish, TC-treated, with gripping ring	60	18	21,2	10/bag	600	**734-2318**
Cell culture dish, TC-treated, with gripping ring	70	15	36,3	10/bag	600	**734-2319**
Cell culture dish, TC-treated, with gripping ring	90	17	55,0	10/bag	500	**734-2320**
Cell culture dish, TC-treated, with gripping ring	100	22	60,8	10/bag	300	**734-2321**
Cell culture dish, TC-treated	150	22	143,0	1/bag	120	**734-2322**
Non-treated surface						
Cell culture dish, non-treated	35	12,3	8,5	10/bag	960	**734-2793**
Cell culture dish, non-treated, with gripping ring	60	18	21,2	10/bag	600	**734-2794**
Cell culture dish, non-treated, with gripping ring	90	17	55,0	10/bag	500	**734-2795**
Cell culture dish, non-treated, with gripping ring	100	22	60,8	10/bag	300	**734-2796**
Cell culture dish, non-treated	150	22	143,0	1/bag	120	**734-2797**



CONFOCAL DISHES FOR MICROSCOPY

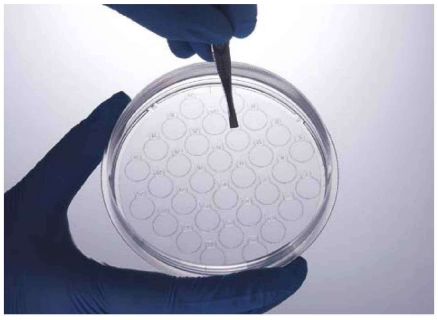
Confocal dishes are suitable for fluorescent, confocal and phase-contrast microscopy experiments. These dishes combine the convenience of standard 35 mm, PS cell culture dishes with the optical benefits of glass. Dishes are available with either Ø 15 or Ø 20 mm glass centre, with or without a tissue culture-treated surface.

- Made from homogenous borosilicate glass with low bubble and inclusion content
- Transparent, medical grade glue, achromatic
- Dish surface is smooth and free from striations to maximise usable area for growth
- Rim on upper side of the lid mates with the dish brim for easy and secure stacking
- Vented lids for effective gas exchange
- Suitable for all living cell examinations
- Sterilised by electron beam irradiation and non-pyrogenic

Glass thickness: 0,16 to 0,19 mm

ISO 13485:2003 and ISO 9001:2008 certified.

Description	Pk	Cat. No.
Glass bottom dish, Ø15 mm centre, TC-treated	40	**734-2903**
Glass bottom dish, Ø20 mm centre, TC-treated	40	**734-2904**
Glass bottom dish, Ø15 mm centre, non treated	40	**734-2905**
Glass bottom dish, Ø20 mm centre, non treated	40	**734-2906**



CELL SLIDES IN CULTURE DISHES

VWR® cell slides are made from medical grade, high transparency PET, which has high strength and is unbreakable. Only the surface of the cell slide has a hydrophilic treatment so adherent cells grow easily, whilst the surrounding culture dish surface is hydrophobic, making it difficult for adherent cells to grow.

- Cell slide transparency and light transmittance are good so cells can be clearly observed under a light or fluorescence microscope
- The use of multiple cell slides in one dish makes it possible to develop multi-factor, multi-index, multi-level in vitro studies under the same condition
- Choice of Ø 8 or Ø 10 mm cell slides, with 12, 18, 32 or 45 cell slides per culture dish
- One cell culture can prepare multiple cell slides for different studies and objectives, increasing work efficiency
- Tab on the cell slide tilts at an angle, which is convenient for operators to directly clamp, and is engraved numerically, facilitating identification
- Free from DNase and RNase, non pyrogenic

The integrated cell slides are fixed in the culture dish. If further testing is necessary after cell culture, the cell slides can be taken out one by one and placed in a culture plate or other container with the necessary specifications.

Supplied individually and packed in 'peel to open' plastic blister packaging. Each box is matched with individually packed sterile metal tweezers. Both cell slides and tweezers are electron beam irradiated and should be used immediately after opening.

Description	Ø (mm)	Growth area (cm^2)	Packed	Pk	Cat. No.
Culture dish, 60 mm, with 18 cell slides, cell growth area 0,50 cm^2 per cell slide	8	9,00	Individually wrapped	48	**734-2973**
Culture dish, 60 mm, with 12 cell slides, cell growth area 0,79 cm^2 per cell slide	10	9,42	Individually wrapped	48	**734-2974**
Culture dish, 100 mm, with 45 cell slides, cell growth area 0,50 cm^2 per cell slide	8	22,50	Individually wrapped	24	**734-2975**
Culture dish, 100 mm, with 32 cell slides, cell growth area 0,79 cm^2 per cell slide	10	25,12	Individually wrapped	24	**734-2976**



CELL CULTURE DISHES, 3-D SCAFFOLD, VWR®

VWR 3-D scaffold cell culture dishes, made of polystyrene (GPPS) with polystyrene polymer scaffold, are able to simulate the three-dimensional structure of cells in animals and the human body to maximum effect, providing an ideal environment for cell interaction, maximising culture area and improving yield.

- Highly consistent scaffold (mean fibre diameter of 500 with 260 µm pore spacing) with 3-D channels providing high connectivity, facilitating nutrient transmission, consistent metabolic activity, and the accuracy of culture results
- Cytokine and growth factor resistant surface assists cell secretion collection, saving time and reducing the need for additional separating steps
- Open pores with high connectivity facilitate nutrient absorption and metabolism
- Larger surface area than regular cell culture dishes for greater yields and maximum material efficiency
- Sterilised by electron beam irradiation
- Free from DNase and RNase, non pyrogenic

Applications include studies of the cell-cell interaction mechanism, cell immunotherapy, stem cell therapy, drug screening and the production of cell-based drugs.

ISO 13485:2003 and ISO 9001:2008 certified.

Description	Ø (mm)	Growth area (cm^2)	Packed	Pk	Cat. No.
Standard dish, with 1× surface treated scaffold insert (32,0×1,6 mm)	35	43	Individually wrapped	40	**734-2967**
Standard dish, with 1× surface treated scaffold insert (51,0×1,6 mm)	60	109	Individually wrapped	30	**734-2968**
Standard dish, with 1× surface treated scaffold insert (67,5×1,6 mm)	70	191	Individually wrapped	30	**734-2969**



MULTIWELL CELL CULTURE PLATES

VWR multiwell cell culture plates are available with a choice of surface treatments.

- Uniform well volume ensures an equal growth surface area
- Well surface is smooth and free from striations to maximise usable growth area
- Raised rims on wells with uniform rings on the lid to reduce evaporation
- Single-position lid reduces the risk of cross-contamination and handling mistakes
- Wells are labelled with alphanumeric code for easy identification
- Suitable for use with all common instruments and automation
- Sterilised by electron beam irradiation
- Free from DNase and RNase, and non pyrogenic

Increased cell attachment surface treatment: This highly hydrophilic surface offers a significant advantage over the traditional cell culture surface. The surface treatment can improve cell spreading and attachment, and is suitable for cells that may adhere poorly due to cell phenotype, stressful culture conditions, or those which normally require additional biological coatings for attachment.

TC-treated: These plates are vacuum-gas plasma-treated for consistent cell attachment and growth.

Non-treated: Non-treated cell and tissue culture plates are ideal for applications where cell attachment is not desired.

Culture area = cm^2 per well.

ISO 13485:2003, ISO 9001:2008

Individually wrapped in peel-to-open paper/plastic blister packs.

Description	Colour	Culture area (cm^2)	Recommended working volume (ml)	Sterile	Packed	Pk	Cat. No.
4-well plates, flat bottom, TC-treated	Clear	1,96	1,0	+	1/bag	100	**732-2905**
4-well plates, flat bottom, non-treated	Clear	1,96	1,0	+	1/bag	100	**732-2904**
6-well plates, flat bottom, treated for increased cell attachment	Clear	9,6	1,9 – 2,9	+	1/bag	100	**734-2798**
6-well plates, flat bottom, TC-treated	Clear	9,6	1,9 – 2,9	+	1/bag	100	**734-2323**
6-well plates, flat bottom, non-treated	Clear	9,6	1,9 – 2,9	+	1/bag	100	**734-2777**
12-well plates, flat bottom, treated for increased cell attachment	Clear	3,85	0,76 – 1,14	+	1/bag	100	**734-2799**

Description	Colour	Culture area (cm²)	Recommended working volume (ml)	Sterile	Packed	Pk	Cat. No.
12-well plates, flat bottom, TC-treated	Clear	3,85	0,76 – 1,14	+	1/bag	100	**734-2324**
12-well plates, flat bottom, non-treated	Clear	3,85	0,76 – 1,14	+	1/bag	100	**734-2778**
24-well plates, flat bottom, treated for increased cell attachment	Clear	1,93	0,38 – 0,57	+	1/bag	100	**734-2800**
24-well plates, flat bottom, TC-treated	Clear	1,93	0,38 – 0,57	+	1/bag	100	**734-2325**
24-well plates, flat bottom, non-treated	Clear	1,93	0,38 – 0,57	+	1/bag	100	**734-2779**
48-well plates, flat bottom, treated for increased cell attachment	Clear	0,83	0,19 – 0,29	+	1/bag	100	**734-2801**
48-well plates, flat bottom, TC-treated	Clear	0,83	0,19 – 0,29	+	1/bag	100	**734-2326**
48-well plates, flat bottom, non-treated	Clear	0,83	0,19 – 0,29	+	1/bag	100	**734-2780**
96-well plates, flat bottom, treated for increased cell attachment	Clear	0,33	0,075 – 0,20	+	1/bag	100	**734-2802**
96-well plates, flat bottom, TC-treated	Clear	0,33	0,075 – 0,20	+	1/bag	100	**734-2327**
96-well plates, flat bottom, non-treated	Clear	0,33	0,075 – 0,20	+	1/bag	100	**734-2781**
96-well plates, round bottom, treated for increased cell attachment	Clear	0,32	0,075 – 0,20	+	1/bag	100	**734-2803**
96-well plates, round bottom, TC-treated	Clear	0,32	0,075 – 0,20	+	1/bag	100	**734-2328**
96-well plates, round bottom, non-treated	Clear	0,32	0,075 – 0,20	+	1/bag	100	**734-2782**
384-well plates, flat bottom, TC-treated	Clear	0,1135	10 – 100 µl	+	1/bag	100	**732-2907**
384-well plates, flat bottom, non-treated	Clear	0,1135	10 – 100 µl	+	1/bag	100	**732-2906**



CELL CULTURE INSERT PLATES, PET

Polyester, sterile, with lid. These insert plates feature a thin, microscopically transparent polyester membrane that is tissue culture-treated for optimal cell attachment and growth.

- Provides excellent cell visibility under phase-contrast microscopy
- Allows assessment of cell viability and monolayer formation
- Can be assembled with 6-, 12- and 24-well plates
- Available in five pore sizes from 0,1 to 8,0 µm
- Non pyrogenic
- Sterilised by electron beam irradiation

Temperature range: –20 to +50 °C.

ISO 9001, ISO 13485.

Individually packed in recyclable PET.

Inserts are not autoclavable.

Description	Pore size (µm)	Culture area (cm²)	Recommended working volume (ml)	Membrane	Membrane Ø (mm)	Packed	Pk	Cat. No.
6-well insert plate	0,4	4,78	2,6	Translucent	24	6/box, 24/case	24	**734-2723**
6-well insert plate	1,0	4,78	2,6	Translucent	24	6/box, 24/case	24	**734-2719**
6-well insert plate	3,0	4,78	2,6	Transparent	24	6/box, 24/case	24	**734-2724**
6-well insert plate	8,0	4,78	2,6	Transparent	24	6/box, 24/case	24	**734-2725**
12-well insert plate	0,4	1,12	1,5	Translucent	12	12/box, 48/case	48	**734-2734**
12-well insert plate	1,0	1,12	1,5	Translucent	12	12/box, 48/case	48	**734-2730**
12-well insert plate	3,0	1,12	1,5	Transparent	12	12/box, 48/case	48	**734-2735**
12-well insert plate	8,0	1,12	1,5	Transparent	12	12/box, 48/case	48	**734-2736**
24-well insert plate	0,4	0,33	0,6	Translucent	6,5	12/box, 48/case	48	**734-2746**
24-well insert plate	1,0	0,33	0,6	Translucent	6,5	12/box, 48/case	48	**734-2741**
24-well insert plate	3,0	0,33	0,6	Transparent	6,5	12/box, 48/case	48	**734-2747**
24-well insert plate	8,0	0,33	0,6	Transparent	6,5	12/box, 48/case	48	**734-2748**





CELL CULTURE INSERT PLATES, PC

PC, sterile, with lid. These insert plates feature a thin, semi-transparent polycarbonate membrane with pore sizes from 0,1 to 12,0 µm.

- Treated for optimal cell attachment
- Assembled with well plates
- Resistant to most fixing and staining agents
- Non pyrogenic
- Sterilised by electron beam irradiation

Temperature range: –20 to +50 °C.

ISO 9001, ISO 13485.

Individually packed in recyclable PET.

Inserts are not autoclavable.

Description	Pore size (µm)	Culture area (cm^2)	Recommended working volume (ml)	Membrane	Membrane Ø (mm)	Packed	Pk	Cat. No.
6-well insert plate	0,1	4,78	2,6	Translucent	24	6/plate, 4 plates/case	24	**734-2715**
6-well insert plate	0,4	4,78	2,6	Translucent	24	6/plate, 4 plates/case	24	**734-2720**
6-well insert plate	1,0	4,78	2,6	Translucent	24	6/plate, 4 plates/case	24	**734-2716**
6-well insert plate	3,0	4,78	2,6	Transparent	24	6/plate, 4 plates/case	24	**734-2721**
6-well insert plate	8,0	4,78	2,6	Transparent	24	6/plate, 4 plates/case	24	**734-2722**
6-well insert plate	12,0	4,78	2,6	Transparent	24	6/plate, 4 plates/case	24	**734-2717**
12-well insert plate	0,1	1,12	1,5	Translucent	12	12/plate, 4 plates/case	48	**734-2726**
12-well insert plate	0,4	1,12	1,5	Translucent	12	12/plate, 4 plates/case	48	**734-2731**
12-well insert plate	1,0	1,12	1,5	Translucent	12	12/plate, 4 plates/case	48	**734-2727**
12-well insert plate	3,0	1,12	1,5	Transparent	12	12/plate, 4 plates/case	48	**734-2732**
12-well insert plate	8,0	1,12	1,5	Transparent	12	12/plate, 4 plates/case	48	**734-2733**
12-well insert plate	12,0	1,12	1,5	Transparent	12	12/plate, 4 plates/case	48	**734-2728**
24-well insert plate	0,1	0,33	0,6	Translucent	6,5	12/plate, 4 plates/case	48	**734-2737**
24-well insert plate	0,4	0,33	0,6	Translucent	6,5	12/plate, 4 plates/case	48	**734-2742**
24-well insert plate	1,0	0,33	0,6	Translucent	6,5	12/plate, 4 plates/case	48	**734-2738**
24-well insert plate	3,0	0,33	0,6	Transparent	6,5	12/plate, 4 plates/case	48	**734-2743**
24-well insert plate	8,0	0,33	0,6	Transparent	6,5	12/plate, 4 plates/case	48	**734-2744**
24-well insert plate	5,0	0,33	0,6	Transparent	6,5	12/plate, 4 plates/case	48	**734-2745**
24-well insert plate	12,0	0,33	0,6	Transparent	6,5	12/plate, 4 plates/case	48	**734-2739**



PETRI DISHES, GLASS, VWR®

Made from borosilicate 3.3 glass and can, therefore, be sterilised and/or used for applications that require heat. These reusable glass Petri dishes are a green alternative to Petri dishes made from plastic, especially for smaller laboratories.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion, giving relatively high resistance to temperature changes
- Autoclavable and sterilisable

Version	Ø (mm)	Height (mm)	Sterility	Pk	Cat. No.
Without vents	60	20	Non sterile	10	**391-0576**
Without vents	80	20	Non sterile	10	**391-0577**
Without vents	100	15	Non sterile	10	**391-0578**
Without vents	100	20	Non sterile	10	**391-0579**
Without vents	120	20	Non sterile	5	**391-0580**
Without vents	150	25	Non sterile	2	**391-0581**



Petri dishes, glass

PETRI DISHES, GLASS, VWR®

Soda-lime glass, with lid. For use as disposables. These Petri dishes are a green alternative to disposable Petri dishes made from plastic.

- Good chemical resistance
- Heatable up to 60 °C
- Not suitable for applications related to strong heat or rapid temperature changes
- Ideal for bacterial culture production

Ø (mm)	Height (mm)	Sterility	Pk	Cat. No.
40	12	Non sterile	18	**391-0650**
60	15	Non sterile	18	**391-0651**
70	15	Non sterile	18	**391-0652**
90	15	Non sterile	18	**391-0654**
100	15	Non sterile	18	**391-0655**
100	20	Non sterile	18	**391-0656**
120	20	Non sterile	18	**391-0657**
150	25	Non sterile	18	**391-0658**
180	30	Non sterile	9	**391-0659**
200	30	Non sterile	10	**391-0660**
200	50	Non sterile	7	**391-0661**

Avantor Services

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