IWAKI Cell Biology

I.C.T, S.L.
INSTRUMENTACIÓN CIENTÍFICO TÉCNICA

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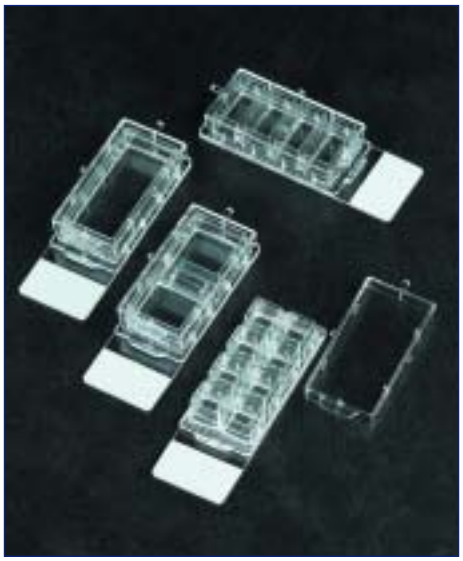


Chamber Slides

- Polystyrene chamber attached to a glass microscope slide by means of a non-toxic silicone rubber
- Ideal for the culture, fixation, staining and observation of cells all on one slide
- Independent chambers help simultaneous multi-cultures with low risk of cross-contamination
- Plastic chambers can be removed following culture
- Supplied sterile in easy to open tray packaging

Product Code	Description	No of Chambers	Chamber Capacity (ml)	Chamber Dimensions (mm)	Material Chamber/Slide	Sterility	Inner Pack Qty	Case Qty
5700-001	Chamber slide	1	10	19 x 44	PS/Glass	EO	10	20
5710-002	Chamber slide	2	4.5	19 x 19	PS/Glass	EO	10	20
5720-004	Chamber slide	4	2	9 x 19	PS/Glass	EO	10	20
5730-008	Chamber slide	8	1	9 x 9	PS/Glass	EO	10	20

Do not sterilise in autoclave
Do not use with organic solvents

Dishes, Tissue Culture Treated

- Manufactured from optically clear, premium grade, non-toxic virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Feature a special tissue culture (TC) treatment that ensures optimum cell attachment and growth
- Stacking rings for stability and vents for improved gas exchange
- An easy grip feature on all 35, 60, and 150mm dishes facilitates ease of handling
- Thick, flat bases enhance optical clarity and reduce bowing. Dish lids are untreated to minimise condensation

Product Code	Description	OD x Height (mm)	Growth Area (cm^2)	Sterility	Inner Pack Qty	Case Qty
3000-035	Tissue culture dish	35 x 10	9	IRR	10	300
3010-060	Tissue culture dish	60 x 15	21	IRR	10	300
3020-100	Tissue culture dish	100 x 20	55	IRR	10	300
3030-150	Tissue culture dish	150 x 20	148	IRR	5	60

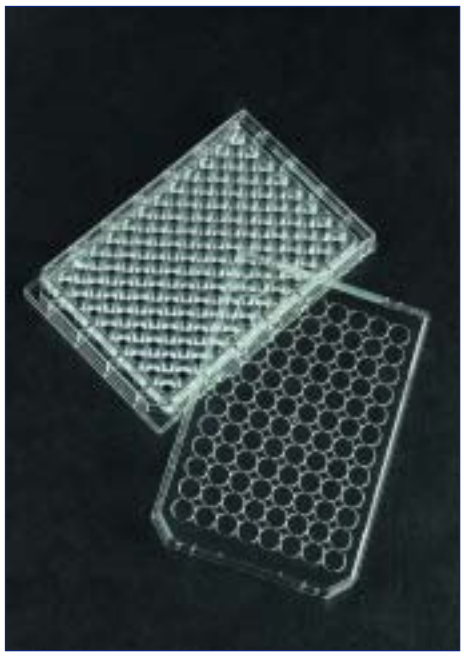
Dishes, Non-Treated

- Manufactured from optically clear, premium grade, non-toxic virgin polystyrene
- Assured sterile by gamma irradiation and are certified non-pyrogenic to less than 0.5EU/ml
- Ideal for suspension cultures or plant cell culture
- Stacking rings for stability and vents for improved gas exchange
- An easy grip feature on all 35, 60, and 150mm dishes facilitates ease of handling
- Thick, flat bases enhance optical clarity and reduce bowing

Product Code	Description	OD x Height (mm)	Growth Area (cm^2)	Sterility	Inner Pack Qty	Case Qty
1000-035	Tissue culture dish	35 x 10	9	IRR	10	300
1010-060	Tissue culture dish	60 x 15	21	IRR	10	300
1020-100	Tissue culture dish	100 x 20	55	IRR	10	300
1030-150	Tissue culture dish	150 x 20	148	IRR	5	60

For our extensive range of glass based products for use with confocal microscopes, please refer to page 77 & 78

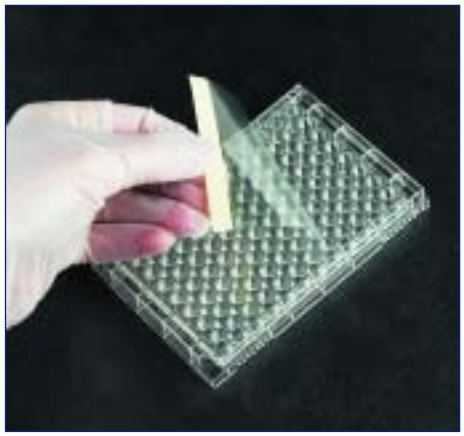
ELISA/Assay Plates, High Binding



- Manufactured from high clarity virgin polystyrene
- Flat or round base well designs
- Uniform plate thickness for precise optical clarity and low background interference
- Alpha-numeric labelling for fast, accurate identification and measurement
- Chimney well design minimises the risk of cross contamination
- Low evaporation lid or sealing film available
- Compatible with standard microplate washers, dispensers and readers

Product Code	Description	Base	Material	Well ID x Depth (mm)	Well Capacity (ml)	Sterility	Inner Pack Qty	Case Qty
3801-096	ELISA plate 96 well	Flat	PS	6.4 x 10.8	0.35	IRR	10	50
3802-096	ELISA plate 96 well	Round	PS	6.9 x 10.8	0.35	IRR	10	50
1803-096	Lid for 3801, 3802	-	PS	-	-	NS	1	50
1804-096	Sealing film (83 x 134mm)	-	PET	-	-	NS	50	50

ELISA/Assay Plates, Low Binding



- Flat or round base well designs
- Uniform plate thickness for precise optical clarity and low background interference
- Alpha-numeric labelling for fast, accurate identification and measurement
- Chimney well design minimises the risk of cross contamination
- Low evaporation lid or sealing film available
- PVC assay plate is a flexible alternative to polystyrene and provides faster transfer of heat for PCR reactions
- Compatible with standard microplate washers, dispensers and readers

Product Code	Description	Base	Material	Well ID x Depth (mm)	Well Capacity (ml)	Sterility	Inner Pack Qty	Case Qty
3881-096	Assay plate 96 well	Flat	PS	6.4 x 10.8	0.35	NS	10	50
3882-096	Assay plate 96 well	Round	PS	6.9 x 10.8	0.35	NS	10	50
3883-096	Assay plate 96 well, Flexible	Flat	PVC	6.4 x 10.8	0.35	NS	10	50
1803-096	Lid for 3881, 3882	-	PS	-	-	NS	1	50
1804-096	Sealing film (83 x 134mm)	-	PET	-	-	NS	50	50

For our extensive range of glass based products for use with confocal microscopes, please refer to page 77 & 78

For information on specific application for each well shape and the details on the binding capacity of the Iwaki ELISA plates please refer to page 104 of the Technical Information section

Filters, Syringe

- Tissue culture grade filters have been designed to meet the exacting standards of today's cell biologists
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Choice of filter housing and membrane pore size to satisfy most filtration requirements
- Cellulose acetate membrane that is both detergent free and low binding
- Transparent acrylic membrane housing available for improved visual inspection
- Membrane support permits positive or negative filtration
- Designed with minimum dead space to reduce sample loss
- Supplied in individual blister packs and ready for use
- PES membrane available for faster flow rates and low protein binding
- Recommended for sterile filtering of protein solutions, tissue culture media and additives

Product Code	Description	Membrane Diameter (mm)	Membrane Material	Pore Size (µm)	Housing Material	Flow Rate (ml/min)	Residual Volume (ml)	Inner Pack Qty	Case Qty
2012-013	Syringe filter	3	CA	0.22	PP	0.5	0.01	1	50
2032-013	Syringe filter	13	CA	0.22	PP	12.0	0.07	1	50
2052-025	Syringe filter	25	CA	0.22	AC	61.2	0.21	1	50
2053-025	Syringe filter	25	CA	0.45	AC	94.6	0.21	1	50
2132-050	Syringe filter	50	CA	0.22	PP	170.0	1.00	1	10
2055 033	Syringe filter	33	PES	0.22	AC	175.0	0.10	1	50

Need suitable bottles for the storage of media?
See Pyrex® Media bottles on page 90 of this catalogue

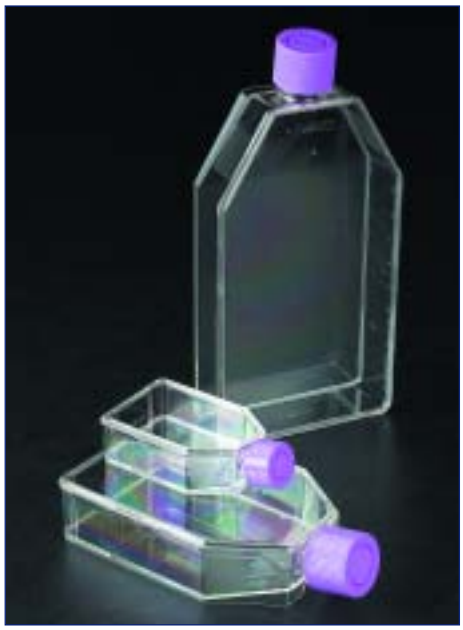
Flasks, Tissue Culture Treated, Two-Position Cap

- Features a special tissue culture surface treatment that ensures optimum cell anchorage and growth
- Manufactured from clear, premium grade, non-toxic, virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Each flask is pressure tested to ensure leak free performance
- Two-position cap enables an airtight seal or manual venting
- The wide neck design allows easy pipetting and cell scraping on all flask sizes
- Moulded graduations facilitate accurate filling
- Anti-tilt skirts, stacking rims and feet for extra stability
- Resealable inner packaging to protect unused product
- Lot number etched into 25, 75 and 150cm² product to ensure complete traceability

Product Code	Description	Surface Area (cm²)	Neck	Capacity (ml)	Inner Pack Qty	Case Qty
3100-025	Tissue culture flask	25	Canted	70	10	300
3102-025	Tissue culture flask, slim	25	Canted	60	10	300
3110-075	Tissue culture flask	75	Canted	270	5	100
3120-150	Tissue culture flask	150	Canted	600	5	40
3160-225	Tissue culture flask	225	Straight	900	5	25

Accessory cell scraper available, please refer to page 79 product code 9010-320

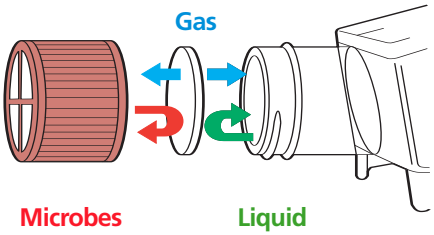
For our extensive range of substrate coated products please refer to pages 80 & 81



Flasks, Tissue Culture Treated, Filter-Vented Cap

- Filter vented caps feature a 0.2µm hydrophobic membrane that eliminates bacterial and fungal contamination
- Manufactured from clear, premium grade, non-toxic, virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Each flask is pressure tested to ensure leak free performance
- The wide neck design allows easy pipetting and cell scraping on all flask sizes
- Moulded graduations facilitate accurate filling
- Anti-tilt skirts, stacking rims and feet for extra stability
- Resealable inner packaging to protect unused product
- Lot number etched into 25, 75 and 150cm² product to ensure complete traceability
- Suitable for cultures requiring constant gas exchange with the cap fully sealed
- Ideally suited for use in CO_2 incubators
- Features a special tissue culture surface treatment that ensures optimum cell anchorage and growth
- Each flask is supplied in sterile, easy to open, resealable packaging

Vented Cap



Product Code	Description	Surface Area (cm²)	Neck	Capacity (ml)	Inner Pack Qty	Case Qty
3103-025	Tissue culture flask	25	Canted	70	10	300
3113-025	Tissue culture flask, slim	25	Canted	60	10	300
3123-075	Tissue culture flask	75	Canted	270	5	100
3133-150	Tissue culture flask	150	Canted	600	5	40
3143-225	Tissue culture flask	225	Straight	900	5	25

Flasks, Non-Treated, Two-Position Cap

- Hydrophobic surface ideally suited for hybridoma and suspension cell cultures
- Manufactured from clear, premium grade, non-toxic, virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Each flask is pressure tested to ensure leak free performance
- Two-position cap enables an airtight seal or manual venting
- The wide neck design allows easy pipetting and cell scraping on all flask sizes
- Accurate graduations are moulded into each flask facilitating filling
- Anti-tilt skirts, stacking rims and feet for extra stability
- Small inner pack sizes with resealable packaging to protect unused product
- Lot number etched into 25, 75 and 150cm² product to ensure complete traceability

Product Code	Description	Surface Area (cm²)	Neck	Capacity (ml)	Inner Pack Qty	Case Qty
1100-025	Tissue culture flask	25	Canted	70	10	300
1110-075	Tissue culture flask	75	Canted	270	5	100
1160-225	Tissue culture flask	225	Straight	900	5	25

Non treated flasks have a white cap for ease of identification. Outer packaging is also clearly marked 'NON TREATED'

Glass Based, Dishes

AS RECOMMENDED BY Leica

- Glass or quartz coverslip attached to the base of a 35mm polystyrene dish with non-toxic silicone adhesive
- Specifically designed for the fluorescent measurement of live and dead cells at a higher magnification than that achievable through plastic dishes
- Quartz based dishes allow higher transmittance and measurement of lower fluorescence
- Ideal for confocal laser microscope studies
- Glass/quartz thickness 0.175 +/- 0.02mm
- Supplied sterile

Product Code	Description	Base Material	Coverslip Diameter (mm)	Sterility	Inner Pack Qty	Case Qty
3900-035	Quartz based dish	Quartz	27	EO	1	50
3901-035	Quartz based dish	Quartz	12	EO	1	50
3930-035	Glass based dish	Glass	27	EO	1	20
3931-035	Glass based dish	Glass	12	EO	1	20

Transmittance

Material	Wavelength (nm)			
	200	300	350	400
Quartz	90.9	91.6	92.3	93.2
Glass	0.0	12.9	89.2	90.0

Fluorescence (Relative value); Excitation wavelength 340 mm

Material	Wavelength (nm)						
	380	400	420	440	460	480	500
Quartz	5.7	8.6	10.3	6.3	4.0	2.4	2.1
Glass	9.7	16.3	20.1	15.2	12.4	11.5	14.1

i Do not sterilise in autoclave. Do not use with organic solvents

Photograph of confocal microscope courtesy of Leica Microsystems. For more information please go to www.leica-microsystems.com

Glass Based, Assay Plates

AS RECOMMENDED BY Leica

- Specifically designed for studying cellular interactions at the molecular level at a higher magnification than is achievable through plastic plates
- Superior optical clarity over conventional polystyrene alternatives makes them ideal for high transmittance microscope scanning
- Glass thickness 0.175 +/- 0.02mm
- Chimney well design reduces cell-to-cell contamination
- Low fluorescent background and black pigment reduces 'cross-talk'
- Especially suitable for use with confocal microscopy
- Low base design ensures readability of all wells by inverted microscopes
- Designed for applications such as:
  - Receptor-ligand detection through fluorescent probes
  - Cell based assays
  - Low-end sensitivity detections

Product Code	Description	No of Wells	Well Base	Well Capacity (µl)	Growth Area (cm2)	Lid	Sterility	Inner Pack Qty	Case Qty
5882-096	Glass based assay plate	96	Flat	300	0.32	None	NS	5	10
5883-384	Glass based assay plate	384	Flat	120	0.10	None	NS	5	10

i Imaging plane from bottom of plate < 0.5mm. Flatness across focal plane100µm

i Do not sterilise in autoclave. Do not use with organic solvents

Glass Based, Culture Plates

AS RECOMMENDED BY Leica

- Specifically designed for tissue culture applications linked with the observation of cells using confocal microscopy with fluorescent probes and multi point microscopes
- Superior optical clarity over conventional polystyrene alternatives makes them ideal for high transmittance microscope scanning
- Glass thickness 0.175 +/- 0.02mm
- Chimney well design reduces well to well contamination
- Low fluorescent background and black pigment reduces 'cross-talk'
- Especially suitable for use with confocal microscopy
- Supplied sterile

Product Code	Description	No of Wells	Well Base	Colour	Lid	Growth Area (cm^2)	Sterility	Inner Pack Qty	Case Qty
5816-006	Glass based culture plate	6	Flat	Black	Yes	1.90	EO	1	10
5826-024	Glass based culture plate	24	Flat	Black	Yes	0.76	EO	1	10
5866-096	Glass based culture plate	96	Flat	Black	Yes	0.33	EO	1	10

i Do not sterilise in autoclave. Do not use with organic solvents

i For our extensive range of substrate coated glass based culture plates please refer to pages 80 & 81

Multiwell Plates, Tissue Culture Treated

- Manufactured from premium grade virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Suitable for single cell isolation through cell culture scale up
- Special surface treatment for optimal cell attachment and growth
- Raised well rims and chimney well design greatly reduce the risk of cross contamination
- Non-reversible lids minimising contamination from condensation
- Each well is alphanumerically labelled

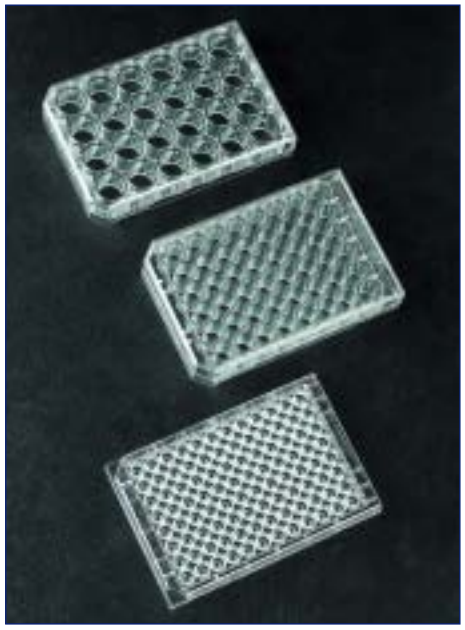
Product Code	No of Wells	Well Base	Lid	Well ID x Depth (mm)	Well Capacity (ml)	Growth Area (cm^2)	Inner Pack Qty	Case Qty
3810-006	6	Flat	Yes	34.6 x 17.5	16	9.4	1	50
3815-012	12	Flat	Yes	22.1 x 17.5	6.5	3.8	1	50
3820-024	24	Flat	Yes	15.5 x 17.3	3.4	2.0	1	50
3830-048	48	Flat	Yes	11.2 x 17.1	1.76	0.98	1	50
3860-096	96	Flat	Yes	6.4 x 10.8	0.35	0.32	1	50
3861-096	96	Flat	Yes	6.4 x 10.8	0.35	0.32	10	50
3870-096	96	Round	Yes	6.9 x 10.8	0.35	-	1	50

i Pre-bar coded plates are available to special order. Please contact the Barloworld Scientific Customer Service Department for further details

i Accessory cell scraper available for 6, 12 and 24 well plates. Please refer to page 79, product code 9000-220

i For our extensive range of substrate coated multiwell plates, please refer to pages 80 & 81

Multi-Well Plates, Non-Treated



- Ideal for hybridoma or lymphocyte culture
- Manufactured from premium grade virgin polystyrene
- Assured sterile by gamma irradiation and certified non-pyrogenic to less than 0.5EU/ml
- Suitable for single cell isolation through to cell culture scale up
- Raised well rims and chimney well design greatly reduce the risk of cross contamination
- Non-reversible lids minimising contamination from condensation
- Each well is alphanumerically labelled

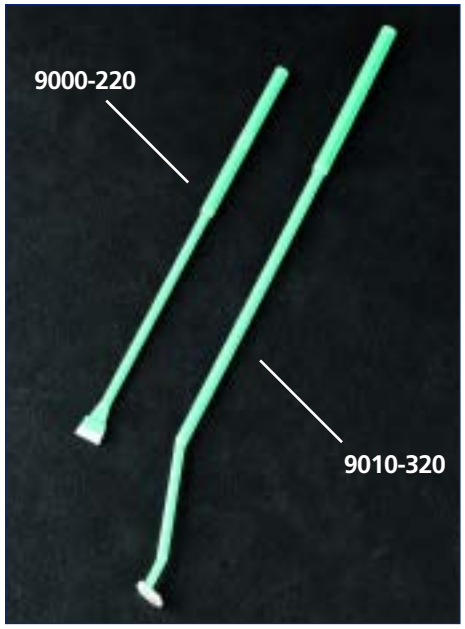
Product Code	No of Wells	Well Base	Lid	Well ID x Depth (mm)	Well Capacity (ml)	Growth Area (cm^2)	Inner Pack Qty	Case Qty
1820-024	24	Flat	Yes	15.5 x 17.3	3.4	2.0	1	50
1830-048	48	Flat	Yes	11.2 x 17.1	1.76	0.98	1	50
3875-096	96	Round	No	6.9 x 10.8	0.35	-	1	50

Pre-bar coded plates are available to special order. Please contact the Barloworld Scientific Customer Service Department for further details

Pipettes

For a full range of pipettes for tissue culture please refer to page 37

Scrapers



- For the mechanical harvesting of cells
- Gentle silicone rubber blades
- Flask scraper with rotating blade for corners, for use with 75, 150 and 225cm^2 flasks
- Dish scraper with fixed blade for 6, 12 and 24 well plates and dishes

Product Code	Description	Blade Width x Length (mm)	Materials (Blade/Shaft)	Sterility	Inner Pack Qty	Case Qty
9000-220	Cell scraper for plates and dishes	11 x 220	Silicone Rubber/ABS resin	IRR	1	100
9010-320	Cell scraper for flasks	12 x 320	Silicone Rubber/ABS resin	IRR	1	100

Substrate Coated Products

- Iwaki protein substrate coated products promote differentiation of cultured cells
- The range supports both endothelial and exothelial cell growth
- Choice of Collagen, Poly-L-Lysine, Poly-Ethylene-Imine, Fibronectin, or Gelatin coated flasks, dishes and multiwell plates
- No refrigeration required
- All products are expiry dated

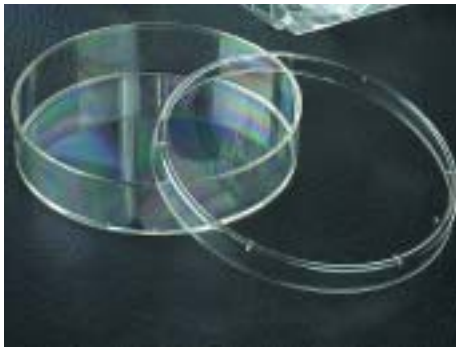
Storage temperature of all substrate coated products should not be higher than 25°C
Avoid storage in areas of high humidity

Rapid temperature changes and exposure to UV irradiation may reduce the shelf life of the products

Collagen Type 1 Coated Products

- Collagen Type 1 coated ware promotes excellent growth in the culturing of human keratinocytes, rat liver cells and mouse dorsal root ganglia neuron in serum free media
- Source - pig tendon
- Improves survival of primary cell cultures
- Improves cell attachment and increases cell proliferation rate for a variety of mammalian cells
- Suitable for the following applications:
  - Cell adhesion assays
  - Studies of effect of Collagen Type 1 on cells

Product Code	Description	Sterility	Inner Pack Qty	Case Qty
4000-010	Dish, 35mm	AS	10	200
4010-010	Dish, 60mm	AS	10	200
4020-010	Dish, 100mm	AS	10	120
4030-010	Dish, 150mm	AS	5	10
4810-010	Plate, 6 well	AS	1	20
4815-010	Plate, 12 well	AS	1	20
4820-010	Plate, 24 well	AS	1	20
4860-010	Plate, 96 well	AS	1	20
4100-010	Flask, 25cm^2	AS	10	60
4110-010	Flask, 75cm^2	AS	5	10
4160-010	Flask, 225cm^2	AS	5	10
4822-010	Glass based culture plate, 24 wells	AS	1	10
4832-010	Glass based culture plate, 48 wells	AS	1	10
4862-010	Glass based culture plate, 96 wells	AS	1	10



Fibronectin Coated Products

- Fibronectin coated dishes are suitable for culturing fibroblasts, hepatocytes and nerve cells in serum free media
- Source – fetal plasma
- Promotes cell attachment and proliferation

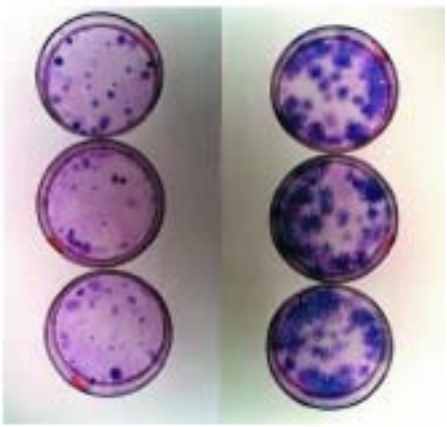
Product Code	Description	Sterility	Inner Pack Qty	Case Qty
4000-030	Dish, 35mm	AS	10	60
4010-030	Dish, 60mm	AS	10	40
4020-030	Dish, 100mm	AS	10	40

Gelatin Coated Products

- Improves cell attachment
- Source – pig skin
- Ideal for primary cultures of myoblasts, liver cells or human endothelial cells

Product Code	Description	Sterility	Inner Pack Qty	Case Qty
4000-020	Dish, 35mm	AS	10	200
4010-020	Dish, 60mm	AS	10	200
4020-020	Dish, 100mm	AS	10	120
4810-020	Plate, 6 well	AS	1	20
4815-020	Plate, 12 well	AS	1	20
4820-020	Plate, 24 well	AS	1	20
4860-020	Plate, 96 well	AS	1	20
4100-020	Flask, 25cm^2	AS	10	60

Non Coated Dish **Gelatin Coated Dish**



Chick Myoblasts

Poly–L–Lysine Coated Products

- Suitable for primary culture of neuronal cells and transfected cell lines
- Source - chemically synthetic amino acid
- Suitable applications include:
  - -Attachment and proliferation of a variety of cell lines
  - -Cell differentiation and neurite outgrowth
  - -Improving survival of primary neurons in culture

Product Code	Description	Sterility	Inner Pack Qty	Case Qty
4000-040	Dish, 35mm	AS	10	200
4010-040	Dish, 60mm	AS	10	200
4020-040	Dish, 100mm	AS	10	120
4822-040	Glass based culture plate, 24 well	AS	1	10
4832-040	Glass based culture plate, 48 well	AS	1	10
4862-040	Glass based culture plate, 96 well	AS	1	10

Poly-Ethylene Imine Coated Products

NEW

- Particularly suitable for primary culture of neurons
- Source – chemically synthetic amino acid
- Suitable applications include:
  - -Attachment and spreading of a variety of cell lines
  - -Cell differentiation and neurite outgrowth
  - -Improving survival of primary neurons in culture

Product Code	Description	Sterility	Inner Pack Qty	Case Qty
4816-060	Glass based culture plate, 24 well	AS	1	10
4826-060	Glass based culture plate, 48 well	AS	1	10
4866-060	Glass based culture plate, 96 well	AS	1	10

For more information on the suitability of different cell types on each substrate coated product, please refer to page 98 of the Technical Information section

Thin Collagen Gel Membrane

- Novel Scaffold for three dimensional cell culture
- Uniform 20µm (re-hydrated) membrane attached to nylon ring to maintain structure
- Transparent, allowing for easy microscopic observation
- Enhanced gel strength enabling easy handling
- Excellent permeability enabling cell-cell interactions cultured on opposite sides of the membrane

Product Code	Description	OD (mm)	Diameter of Transparent Area (mm)	Material Membrane/ Ring	Sterility	Inner Case Qty	Case Qty
VIT-C001	Thin Collagen Gel Membrane	33	24	Collagen Gel/ Nylon	IRR	1	6

Tubes, Culture

For a full range of glass culture tubes please refer to pages 63 & 64

For a full range of plastic culture tubes please refer to page 64

Tubes, Centrifuge, 15ml

- Recommended RCF values:
  - Polypropylene 15ml centrifuge tubes 9,400 x g
  - Polystyrene 15ml centrifuge tubes 1,800 x g
- Manufactured from clear polystyrene or opaque polypropylene
- Printed graduations and flat top triple sealed, HDPE cap
- Assured sterile by gamma irradiation and certified non-pyrogenic (<0.5EU/ml)
- Available in racks or convenient, easy to open re-sealable bulk packaging

Product Code	Description	Capacity (ml)	Racked/ Bulk	Material Base/Cap	Sterility	Inner Pack Qty	Case Qty
2322-015	Centrifuge tube	15	Racked	PS/HDPE	IRR	50	500
2324-015	Centrifuge tube	15	Bulk	PS/HDPE	IRR	25	500
2323-015	Centrifuge tube	15	Racked	PP/HDPE	IRR	50	500
2325-015	Centrifuge tube	15	Bulk	PP/HDPE	IRR	25	500

Tubes, Centrifuge, 50ml

- Recommended RCF values:
  - Polypropylene 15ml centrifuge tubes 9,400 x g
  - Polystyrene 15ml centrifuge tubes 1,500 x g
- Manufactured from clear polystyrene or opaque polypropylene
- Printed graduations and flat top, triple sealed, HDPE cap
- Assured sterile by gamma irradiation and certified non-pyrogenic (<0.5EU/ml)
- Available in racks or convenient, easy to open, re-sealable bulk packaging

Product Code	Description	Capacity (ml)	Racked/ Bulk	Material Base/Cap	Sterility	Inner Pack Qty	Case Qty
2342-050	Centrifuge tube	50	Racked	PS/HDPE	IRR	25	300
2344-050	Centrifuge tube	50	Bulk	PS/HDPE	IRR	10	300
2343-050	Centrifuge tube	50	Racked	PP/HDPE	IRR	25	300
2345-050	Centrifuge tube	50	Bulk	PP/HDPE	IRR	10	300

For a further range of centrifuge tubes suitable for tissue culture applications, please refer to the Sterilin range on page 60