

Beginning-to-end Solutions for

# Stem Cell Research

A microscopic view of several stem cell colonies. The colonies are spherical and composed of numerous small, interconnected cells. They are surrounded by a dense network of fine, fibrous structures, likely representing the extracellular matrix or supporting cells. The overall appearance is that of a complex, three-dimensional cellular structure.

CORNING

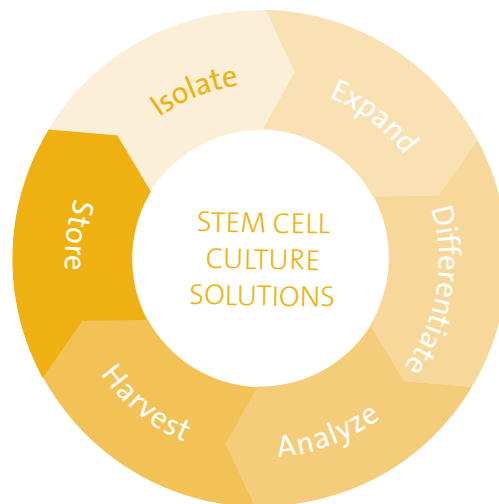


## BEGINNING-TO-END SOLUTIONS FOR STEM AND PRIMARY CELL RESEARCH

The science of stem cell culture has advanced rapidly since its beginnings in the 1980s, as has the technology behind this research. From feeder-free substrates, to defined media, to scalable cell expansion systems, continual advances in stem cell culture have inspired Corning to develop innovative new tools to support this groundbreaking work.

Corning was a leader in disposable cell cultureware during the exciting early days of stem cell culture. Today, we continue to work with researchers, providing high quality cell culture consumables, as well as the latest technologies, including defined cell culture surfaces, xeno-free culture media, and scalable cell expansion vessels for stem cells, primary cells, and other cell types.

This brochure highlights some of the key Corning products that are used throughout the stem cell workflow. Detailed product information and a complete technical library can be found at [www.corning.com/lifesciences](http://www.corning.com/lifesciences).



# BEGINNING-TO-END SOLUTIONS FOR STEM CELL RESEARCH

## Surfaces for Primary and Stem Cell Culture

Find the optimal surface for expanding your cells.

	Complex Attachment	Purified ECM Attachment	Synthetic, Chemically Defined Attachment
Pluripotent Stem Cells	<ul style="list-style-type: none"> <li>• Corning® Matrigel® Matrix hESC-qualified</li> </ul>	<ul style="list-style-type: none"> <li>• rLaminin-521</li> <li>• Mouse Laminin/Entactin Complex</li> <li>• Human Vitronectin</li> </ul>	<ul style="list-style-type: none"> <li>• Corning Synthemax® surface</li> </ul>
Mesenchymal Stem Cells		<ul style="list-style-type: none"> <li>• Human Fibronectin</li> </ul>	<ul style="list-style-type: none"> <li>• Corning PureCoat™ ECM Mimetic Fibronectin Peptide</li> <li>• Corning PuraMatrix™ Hydrogel</li> <li>• Corning CellBIND surface</li> </ul>
Endothelial Progenitors		<ul style="list-style-type: none"> <li>• Rat-tail Collagen</li> <li>• Human Fibronectin</li> <li>• Human Collagen</li> </ul>	<ul style="list-style-type: none"> <li>• Corning PureCoat ECM Mimetic Fibronectin or Collagen I Peptide</li> </ul>
Neuronal Progenitors	<ul style="list-style-type: none"> <li>• Corning Matrigel Matrix</li> </ul>	<ul style="list-style-type: none"> <li>• Poly-L-Ornithine/ Mouse Laminin</li> <li>• rLaminin-521</li> </ul>	<ul style="list-style-type: none"> <li>• Corning Synthemax Surface</li> <li>• Corning PuraMatrix Hydrogel</li> </ul>
Keratinocytes		<ul style="list-style-type: none"> <li>• Rat-tail Collagen</li> <li>• Human Collagen</li> </ul>	<ul style="list-style-type: none"> <li>• Corning PureCoat ECM Mimetic Collagen-I Peptide</li> </ul>

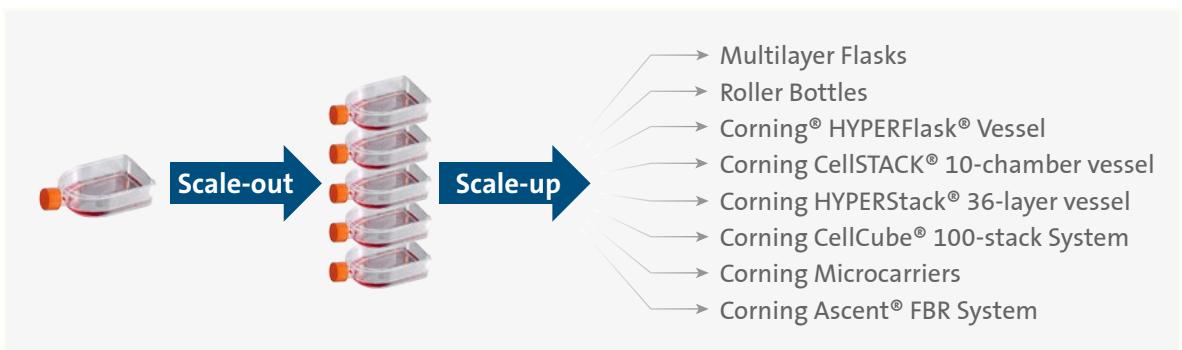
## Media and Growth Factors for Stem Cell Culture

Corning media and supplements include classical formulations, as well as serum-free and specialty media.

Classical Media	Serum	Serum-Free	Xeno-/Animal-free
<ul style="list-style-type: none"> <li>• DMEM with high glucose</li> <li>• DMEM with low glucose</li> <li>• DMEM with Corning glutagro™ supplement</li> <li>• DMEM/F12</li> <li>• MEM</li> <li>• MEM Alpha</li> <li>• IMDM</li> <li>• RPMI</li> </ul>	<ul style="list-style-type: none"> <li>• Fetal Bovine Serum (FBS), Regular and Premium</li> <li>• Heat Inactivated FBS</li> <li>• Specialty FBS</li> </ul>	<ul style="list-style-type: none"> <li>• ITS</li> <li>• MITO+</li> <li>• Delipidized albumin</li> <li>• Growth factors</li> <li>• Trace elements A, B, C</li> </ul>	<ul style="list-style-type: none"> <li>• Recombinant growth factors</li> <li>• Recombinant albumin</li> <li>• Recombinant lactoferrin</li> </ul>

## Vessels for Stem Cell Culture

Simplify scale-up with Corning culture vessels designed for each stage of the cell culture workflow.



## ISOLATE

### Products for Isolation and Derivation

- ▶ Advanced surfaces
- ▶ Cell strainers and centrifuge tubes
- ▶ Pipet tips and pipettors
- ▶ Pipets and pipet controllers
- ▶ Syringe and filter systems
- ▶ Tissue homogenizers
- ▶ Cell dissociation reagents and buffer



- ▶ Products for primary or stem cell isolation and derivation include tools for tissue extraction, ECMs for isolation of primary or progenitor cells, and novel vessels for continuous feeding during prolonged derivation and differentiation protocols.



**Tissue Homogenizers and Cell Strainers:** Provide rapid isolation of primary cells from tissue allowing for a consistently uniform single-cell suspension. Corning also offers cell dissociation reagents including trypsin, dispase, and non-enzymatic cell recovery solution.



**Advanced Surfaces:** Include Corning Matrigel matrix and a wide variety of biological and xeno-free extracellular matrices for stem, progenitor or primary cell isolation. In addition to biological attachment products, Corning has an extensive line of synthetic Tissue Culture (TC)-treated surfaces and ECM mimetic peptide-coated cultureware for applications requiring defined conditions.

## EXPANSION

### Products for Expansion

- ▶ Corning® Matrigel® matrix and defined extracellular matrices
- ▶ Corning Synthemax® surface, Corning PureCoat™ ECM mimetic surfaces and Corning CellBIND® surfaces
- ▶ Microcarriers
- ▶ Dishes, flasks, and plates
- ▶ Media, serum, and serum-free supplements
- ▶ Multi-layer vessels, including the Falcon® Multi-Flask, Corning HYPERFlask®, CellSTACK® and HYPERStack® vessel product lines



- ▶ Novel and scalable environments for stem and primary cell types for cell expansion in basic and clinical research applications.



**Corning Matrigel Matrix:** The original, most widely referenced extracellular matrix for hESC, hiPSC, and adult stem cell expansion in serum or serum-free culture environments. Cited in thousands of experiments for robust, biologically functional 2D and 3D stem cell culture. Formulations include growth factor reduced and high protein concentration, as well as hESC-qualified, which has been pre-qualified with mTeSR™ defined, feeder-free cell culture medium from Stem Cell Technologies.

**Corning recombinant Laminin-521:** A biocompatible, full length laminin that enables feeder-free, clump-free, single cell passaging of PSCs without ROCK-inhibitor.



**Corning Synthemax Surface and ECM Mimetic Cultureware:** Synthetic, animal origin-free substrates and surfaces for serum, xeno- or animal origin-free expansion of stem cells where defined conditions are required. Corning Synthemax surface is a Vitronectin-based peptide optimized for pluripotent stem cells and neural stem cells. Corning PureCoat ECM mimetic cultureware is available with either a Fibronectin or Collagen I mimetic peptide coating for expanding hMSCs, keratinocytes, and progenitor cells. Substrates and surfaces are room temperature stable and are scalable.

**Corning CellBIND Surfaces:** The surface features a net negative surface charge due to oxygen-containing functional groups incorporated in the polystyrene surface. The surface is more hydrophilic, and thus more wettable, which facilitates cell attachment and spreading.



**Multi-layered Flasks:** Choose from a variety of sizes and surfaces, including 3- and 5-layer Falcon® Multi-Flasks with TC-treated surfaces or Corning® PureCoat™ ECM mimetic Fibronectin or Collagen I synthetic peptide surfaces. For larger cell expansion needs, the Corning HYPERFlask® vessel has 10 interconnected, polystyrene, gas permeable growth surfaces and 1,720 cm<sup>2</sup> available growth area.



**Corning HYPERStack® Vessel:** Closed system with 6,000 cm<sup>2</sup> of cell growth area; chemically resistant heat-sealable flexible tubing for liquid handling manipulations, proprietary gas permeable film technology, and low particulate assembly. Excellent option for cell therapy applications.



**Corning Microcarriers:** Have a Sterility Assurance Level (SAL) of 10<sup>-6</sup>, ready to use, and available in closed systems packaging that can be used directly with bioreactors. USP Class VI polystyrene beads are available with either Corning CellBIND® surface or Corning Synthemax® surface for PSC and stem cell expansion.



**Media, Sera, and Serum-free Factors:** The Corning media line includes a broad range of standard and custom media and molecular biology reagents for tissue and cell culture that support superior growth and viability of suspension and adherent cell cultures.



**Extracellular Matrices and Attachment Factors:** Corning offers a wide variety of biological, xeno-free and synthetic attachment options for stem cell, progenitor or primary cell expansion. Corning ECMs include mouse Laminin, Laminin/Entactin complex, rat tail Collagen I, human Collagen I, III, IV, V, VI, human Fibronectin, and human Vitronectin.

## DIFFERENTIATION

### Products for Differentiation

- ▶ Corning® Matrigel® matrix and defined extracellular matrices
- ▶ Dishes, flasks, and plates
- ▶ Growth factors, serum-free media supplements
- ▶ Media, serum, and reagents
- ▶ Multi-layer vessels including the Falcon® Multi-Flask, Corning HYPERFlask® and HYPERStack® vessel product lines
- ▶ Ultra-Low Attachment (ULA) surface plates, dishes, and flasks
- ▶ Corning BioCoat® Cultureware



- ▶ Optimize the cell culture environment to direct cell differentiation and specialization with Corning's tools and technologies.



**Corning Extracellular Matrices:** Choose from a wide variety of animal- or human-derived biological ECMs as well as synthetic ECM options for 2D and 3D stem cell differentiation. Use our differentiation guide to determine the optimal ECM for the differentiation of hPSCs or progenitor cell types to specific differentiated states.



**Growth Factors and Cytokines:** Corning offers a comprehensive line of high quality cytokines and media additives that allow propagation and differentiation of cells under defined, serum-reduced or serum-free conditions.



**Corning Ultra-Low Attachment (ULA) Surface:** Stable, noncytotoxic and biologically inert hydro-gel-coated surface that prevents cell attachment while enabling embryoid body formation and cell differentiation. Available in a variety of vessel formats, including round bottom 96-well microplates, standard multiwell plates, dishes, and scalable cell culture flasks.



## ANALYSIS

### Products for Analysis

- ▶ Biologically coated microplates in HTS formats
- ▶ Corning® Matrigel® matrix, high concentration (*in vivo* delivery)
- ▶ Corning PuraMatrix™ Peptide hydrogel (*in vivo* delivery)
- ▶ Dishes, flasks, and plates
- ▶ Media, sera, reagents and buffers
- ▶ Transwell® permeable supports
- ▶ Pipet tips and pipettors
- ▶ Pipets and pipet controllers
- ▶ Slides and coverslips
- ▶ Ultra-Low Attachment (ULA) surface plates, dishes, flasks (embryoid bodies)



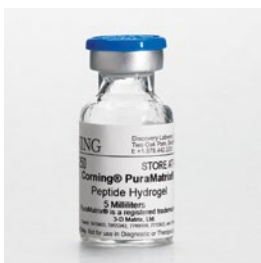
▶ Tools for *in vitro* and *in vivo* analysis of stem, progenitor, and differentiated cell types.

### *In vivo*

**Corning Matrigel Matrix, High Concentration (HC):** Biocompatible delivery scaffold for the study of stem or differentiated cell functionality *in vivo*. Higher protein concentration provides increased gelation and matrix stiffness. Ideal for augmenting cell transplantation *in vivo*. Available in standard phenol-red free and growth-factor-reduced formulations.



**Corning PuraMatrix Peptide Hydrogel:** Fully synthetic, animal-free, peptide-based hydrogel for *in vivo* tissue regeneration research. Stable, biocompatible scaffold with demonstrated utility in myocardial, osteogenic or chondrocyte engraftment of cells for tissue regeneration.



### *In vitro*

**Corning BioCoat® Cultureware:** Biologically coated cultureware in a variety of surface treatments. Provides enhanced cell attachment and growth for primary, stem and progenitor cell types. Options include human Collagen I and IV, human Fibronectin, Laminin, Poly-L-Lysine, Poly-D-Lysine, Poly-L-Ornithine/Laminin and custom coatings. Available on a range of scalable vessel types, including dishes, microplates, flasks, and permeable supports.



# HARVEST

## Products for Harvest

- ▶ Benchtop equipment
- ▶ Cell dissociation reagents
- ▶ Buffered salt solutions
- ▶ Cell scrapers
- ▶ Centrifuge tubes and cell strainers
- ▶ Media and sera
- ▶ Pipet tips and pipettors
- ▶ Pipets and pipet controllers
- ▶ Slides and coverslips
- ▶ Filter systems



▶ Pipets, centrifuge tubes, cell scrapers, and reagents to make cell harvesting easier.



**Cell Recovery Solution:** A non-enzymatic cell recovery solution recommended for recovering cells from Corning® Matrigel® matrix without damaging membrane-bound receptors, or cell-cell interactions.



**Trypsin EDTA 1X:** Enzymatically release adherent cells from TC-treated plates for passaging. Divalent cations, such as calcium and magnesium, which are often present in the cell culture environment, inhibit this action. EDTA sequesters these ions, which enhances the efficacy of Trypsin.



**Dispase:** An animal origin-free, bacillus-derived, neutral metalloprotease that is recommended for recovering cells from Corning Matrigel matrix. Dispase cleaves Fibronectin and Collagen bonds in Corning Matrigel matrix to release cells without damaging membrane-bound receptors or cell-cell interactions.



**Accutase®:** An effective solution for routinely detaching cells from standard TC-treated vessels, as well as advanced surface treatments or coatings. Accutase is useful for cell detachment and for preparing single-cell suspensions from clumped cell populations for sub-culturing cells, analytical studies, and for accurate cell counting. Accutase is free of mammalian or bacterial-derived products, which reduces the risk of contamination.

## STORE

### Products for Storage

- ▶ Centrifuge tubes
- ▶ Cryogenic bags, vials and accessories
- ▶ Dimethyl Sulfoxide (DMSO)
- ▶ Media, sera, reagents
- ▶ Pipet tips and pipettors
- ▶ Pipets and pipet controllers



### ▶ Storage Solutions for Stem Cell Culture

Minimize the stresses on cultures during storage and maximize their subsequent recovery and survival with Corning storage solutions.

**Cryogenic Vials and Accessories:** Corning offers a variety of externally and internally threaded vials, as well as externally threaded vials with a plug seal cap. All vials are sterilized by irradiation and are nonpyrogenic.



**Cryopreservation bags:** Single-use containers designed for storage, preservation, and transfer of cells. Unique bag film remains flexible at ultra-low temperatures (-196°C) while remaining flexible and translucent when filled with liquid. Proprietary membrane port design offers thinner walls for increased flexibility, and attached cap minimizes membrane exposure during freezing.

## ORDERING INFORMATION

Products may not be available in all markets.

### Analyze

Cat. No.	Description	Qty/Pk	Qty/Cs
354250	Corning® PuraMatrix™ peptide hydrogel	1	1
354248	Corning Matrigel® basement membrane matrix, high concentration (HC), LDEV-free, 10 mL	1	1

### Differentiate

354005	2.5S NGF (Nerve Growth Factor), mouse natural, 10 µg	1	1
354060	bFGF (Basic Fibroblast Growth Factor), human recombinant, 10 µg	1	1
356060	bFGF, human recombinant, 50 µg (5 x 10 µg)	1	1
356061	bFGF, human recombinant, 100 µg (10 x 10 µg)	1	1
354123	BPE (Bovine Pituitary Extract), 15 mg	1	1
356123	BPE, 75 mg	1	1
354052	EGF (Epidermal Growth Factor), human recombinant, 100 µg	1	1
356052	EGF, human recombinant, 1 mg (10 x 100 µg)	1	1
354001	EGF, mouse natural (Culture Grade), 100 µg	1	1
356001	EGF, mouse natural (Culture Grade), 1 mg (10 x 100 µg)	1	1
354010	EGF, mouse natural (Receptor Grade), 100 µg	1	1
356010	EGF, mouse natural (Receptor Grade), 500 µg (5 x 100 µg)	1	1
354039	TGF-β (Transforming Growth Factor-β), human natural, 1 µg	1	1
356039	TGF-β, human natural, 5 µg (1 x 5 µg)	1	1
356040	TGF-β, human natural, 10 µg (5 x 2 µg)	1	1
354006	ECG (Endothelial Cell Growth Supplement), 15 mg	1	1
356006	ECG, 100 mg	1	1
354351	ITS premix, 5 mL, 5L equivalent	1	1
354350	ITS premix, 20 mL 20L equivalent	1	1
354352	ITS+ premix, 20 mL	1	1
355006	MITO+ Serum extender, 5 mL	1	1
355104	Nu-Serum® IV growth medium supplement, 100 mL	1	1
355504	Nu-Serum IV growth medium supplement, 500 mL	1	1
355500	Nu-Serum growth medium supplement, 500 mL	1	1
355100	Nu-Serum growth medium supplement, 100 mL	1	1
354115	T-Cell culture supplement with conA (IL-2 culture supplement), rat, 100 mL	1	1
3261	60 mm dish, Ultra-Low Attachment (ULA) surface	5	20
3814	75 cm <sup>2</sup> Flask, U-shaped, canted neck, vent cap, ULA surface	4	24
3474	96-well microplate, clear, flat bottom, ULA surface, with lid, sterile	1	24
7007	96-well microplate, clear, round bottom, ULA surface, with lid, sterile	1	24
3471	6-well plate, clear, flat bottom, ULA surface, with lid, sterile	1	24
3473	24-well plate, clear, flat bottom, ULA surface, with lid, sterile	1	24

### Expand

Cat. No.	Description	Qty/Pk	Qty/Cs
356270	Corning PureCoat™ ECM mimetic Collagen I peptide 6-well plate	5	10
356240	Corning PureCoat ECM mimetic Fibronectin peptide 6-well plate	1	10
356271	Corning PureCoat ECM mimetic Collagen I peptide 24-well plate	5	10
356241	Corning PureCoat ECM mimetic Fibronectin peptide 24-well plate	5	50
356272	Corning PureCoat ECM mimetic Collagen I peptide 75 cm <sup>2</sup> flask	5	10
356242	Corning PureCoat ECM mimetic Fibronectin peptide 75 cm <sup>2</sup> flask	5	10
356273	Corning PureCoat ECM mimetic Collagen I peptide 175 cm <sup>2</sup> flask	5	10
356243	Corning PureCoat ECM mimetic Fibronectin peptide 175 cm <sup>2</sup> flask	5	10
354277	Corning Matrigel matrix hESC-qualified, LDEV-free, 5 mL	1	1

## Expand (continued)

Cat. No.	Description	Qty/Pk	Qty/Cs
10030	Corning® HYPERFlask® M cell culture vessel, Corning CellBIND® surface, sterile, bar coded	1	4
10034	Corning HYPERFlask M cell culture vessel, Corning CellBIND surface, sterile, bar coded	4	24
10020	Corning HYPERFlask M cell culture vessel, Corning CellBIND surface, sterile, bar coded	4	4
20012	Corning HYPERStack® 12-layer cell culture vessel, Corning CellBIND surface	1	4
20013	Corning HYPERStack 12-layer cell culture vessel, not treated	1	4
20036	Corning HYPERStack 36-layer cell culture vessel, Corning CellBIND surface	1	2
20037	Corning HYPERStack 36-layer cell culture vessel, not treated	1	2
11000	Corning HYPERStack stainless steel manipulator	1	1
10042	Disposable tubing set for use with glass bottle, 3/8 ID x 1/2 OD, ADCF, 18" in length, sterile	1	2
10043	Disposable tubing set for use with 850 cm <sup>2</sup> polystyrene roller bottle, 3/8 ID x 1/2 OD, ADCF, 0.2 µm filter, MPC quick connect	1	2
10-013-CV	500 mL DMEM (Dulbecco's Modified Eagle Medium) 4.5 g/L glucose, L-glutamine, and sodium pyruvate	6	6
10-016-CV	500 mL Iscove's modification of DMEM with L-glutamine	6	6
10-090-CV	500 mL DMEM/Ham's F-12 50/50 mix with L-glutamine	6	6
10-092-CV	500 mL DMEM/Ham's F-12 50/50 Mix with L-glutamine and 15 mM HEPES	6	6
25-005-CI	100 mL L-glutamine, 200 mM solution	6	6
25-015-CI	100 mL Corning glutagro™, liquid 200 mM solution, 100X, with 8.5 g/L NaCl	1	1
25-025-CI	100 mL MEM Nonessential Amino Acids	6	6
25-037-CI	100 mL 45% glucose solution	1	1
25-058-CI	Accutase® cell detachment solution, liquid, 100 mL	1	1
25-800-CR	10 mL ITS (Insulin-Transferrin-Selenium)	1	1
30-002-CI	100 mL Penicillin-Streptomycin Solution, 100X, 10,000 I.U. Penicillin 10,000 µg/mL Streptomycin	6	6
35-010-CV	500 mL FBS (Fetal Bovine Serum), Regular	1	1
35-011-CV	500 mL FBS, Regular (Heat Inactivated)	1	1
35-015-CV	500 mL FBS, Premium	1	1
35-016-CV	500 mL FBS, Premium (Heat Inactivated)	1	1
35-074-CV	500 mL FBS, Premium (Embryonic stem cell tested)	1	1
61-030-RM	100 g L-glutamine, powder	1	1
62-450-RF	1 g rhAlbumin	1	1
3535	Corning Synthemax® substrate	1	1
354221	Corning rLaminin-521, Human, 100 µg	1	1
354224	Corning rLaminin-521, Human, 500 µg	1	1
354253	Cell recovery solution, 100 mL	1	1
354270	Cell recovery solution, 500 mL	1	1
354235	Dispase, 100 mL	1	1

## Harvest

Cat. No.	Description	Qty/Pk	Qty/Cs
20-030-CV	500 mL DPBS (Dulbecco's Phosphate-Buffered Saline), 10X with calcium and magnesium	6	6
20-031-CV	500 mL DPBS, 10X without calcium and magnesium	6	6
21-030-CV	500 mL DPBS, 1X with calcium and magnesium	6	6
21-031-CM	1L DPBS, 1X without calcium and magnesium	6	6
21-031-CV	500 mL DPBS, 1X without calcium and magnesium	6	6
21-031-LB	20L DPBS, 1X without calcium and magnesium	1	1
21-031-LX	10L DPBS, 1X without calcium and magnesium	1	1
21-040-CM	1L PBS (Phosphate-Buffered Saline), 1X without calcium and magnesium	6	6
21-040-CMX12	1L PBS, 1X without calcium and magnesium	12	12
21-040-CV	500 mL PBS, 1X without calcium and magnesium	6	6
25-050-CI	100 mL Trypsin 1X 0.25% Trypsin in HBSS without calcium and magnesium, porcine parvovirus tested	6	6
25-051-CI	100 mL Trypsin EDTA 1X 0.05% Trypsin/0.53 mM EDTA in HBSS with sodium bicarbonate, without calcium and magnesium, porcine parvovirus tested	6	6
25-052-CI	100 mL Trypsin EDTA 1X 0.05% Trypsin/0.53 mM EDTA in HBSS without sodium bicarbonate, calcium and magnesium, porcine parvovirus tested	6	6

## Harvest (continued)

Cat. No.	Description	Qty/Pk	Qty/Cs
25-052-CV	500 mL Trypsin EDTA 1X 0.05% Trypsin/0.53 mM EDTA in HBSS without sodium bicarbonate, calcium and magnesium, porcine parvovirus tested	6	6
25-054-CI	100 mL Trypsin 10X 2.5% trypsin in HBSS without calcium, magnesium, and phenol red, porcine parvovirus tested	6	6
91-200-75	5L Trypsin bag for Corning® HYPERStack® vessels	1	1
25-056-CI	100 mL Corning CellStripper®, liquid	6	6
431752	100 µm cell strainer, yellow, sterile, individually packaged	1	50
431750	40 µm cell strainer, blue, sterile, individually packaged	1	50
431751	70 µm cell strainer, white, sterile, individually packaged	1	50

## Isolate

Cat. No.	Description	Qty/Pk	Qty/Cs
354277	Corning Matrigel® matrix hESC-qualified, LDEV-free, 5 mL	1	1

## Store

Cat. No.	Description	Qty/Pk	Qty/Cs
430658	1.2 mL cryogenic vial, round bottom, external threaded, self-standing, Polypropylene	50	500
430487	1.2 mL cryogenic vial, round bottom, internal threaded, self-standing, Polypropylene	50	500
430661	2 mL cryogenic vial, round bottom, external threaded, self-standing, Polypropylene	50	500
430659	2 mL cryogenic vial, round bottom, external threaded, self-standing, Polypropylene	50	500
430489	2 mL cryogenic vial, round bottom, internal threaded, self-standing, Polypropylene	50	500
430488	2 mL cryogenic vial, round bottom, internal threaded, self-standing, Polypropylene	50	500
431386	2 mL cryogenic vial, round bottom, internal threaded, self-standing, Polypropylene	50	250
430662	4 mL cryogenic vial, round bottom, external threaded, self-standing, Polypropylene	50	500
430490	4 mL cryogenic vial, round bottom, internal threaded, self-standing, Polypropylene	50	500
430491	4 mL cryogenic vial, round bottom, internal threaded, self-standing, Polypropylene	50	500
430663	5 mL cryogenic vial, round bottom, external threaded, self-standing, Polypropylene	50	500
430674	5 mL cryogenic vial round bottom, external threaded, self-standing, Polypropylene, bulk, cap unassembled, unprinted	125	500
430492	5 mL cryogenic vial, round bottom, internal threaded, self-standing, Polypropylene	50	500
430656	5 mL cryogenic vial, round bottom, internal threaded, self-standing, Polypropylene	50	10
431121	1-2 mL cryogenic vial storage box, Polycarbonate, holds 100 vials	5	10
431119	1-2 mL cryogenic vial storage box, Polycarbonate, holds 81 vials	5	10
431120	4-5 mL cryogenic vial storage box, Polycarbonate, holds 81 vials	5	5
431131	Cryogenic vial rack, Polypropylene, holds 50 vials	2	2
91-200-88	20 mL cryopreservation storage bag	1	1
91-200-89	70 mL cryopreservation storage bag	1	1
91-200-90	100 mL cryopreservation storage bag	1	1
91-200-91	190 mL cryopreservation storage bag	1	1
25-950-CQC	DMSO (Dimethyl Sulfoxide), 250 mL	1	1

For additional storage solutions, please refer to the following literature at [www.corning.com/lifesciences](http://www.corning.com/lifesciences): Corning CoolCell® Containers (CLS-CC-097), Corning CoolBox™ Ice-free Systems (CLS-CC-099), Corning CoolRack® Modules (CLS-CC-100), Corning CoolSink® Modules and Accessories (CLS-CC-102).



# CORNING

Corning Incorporated  
Life Sciences

[www.corning.com/lifesciences](http://www.corning.com/lifesciences)

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*Corning's products are not specifically designed and tested for diagnostic testing. Many Corning products, though not specific for diagnostic testing, can be used in the workflow and preparation of the test at the customers discretion. Customers may use these products to support their claims. We cannot make any claims or statements that our products are approved for diagnostic testing either directly or indirectly. The customer is responsible for any testing, validation, and/or regulatory submissions that may be required to support the safety and efficacy of their intended application.*