hES CELLS	HEPATOCYTES	ENDOTHELIAL CELLS	NEURONAL CELLS	EPITHELIAL CELLS	TUMOR CELLS	BD BIOSCIENCES - DISCOVERY LABWARE PRODUCT	
■	■	■	■	■	■	BD Matrigel™ Matrix	Cell Culture Reagents
■					■	Laminin/Entactin Complex High Concentration	
	■	■	■	■	■	Collagen I	
			■		■	Fibronectin	
■			■		■	Laminin	
			■		■	Poly-D-Lysine	
	■		■		■	BD™ PuraMatrix™ Peptide Hydrogel	
■					■	bFGF	
	■					Hepatocyte Culture Media	
	■	■	■	■	■	ITS	
		■				Vascular Endothelial Growth Factor (VEGF)	
		■				Endothelial Cell Growth Supplement (ECGS)	
			■			Nerve Growth Factor (NGF)	
			■			Endothelial Growth Factor (EGF)	
				■		Enterocyte Differentiation Medium	
	■					Intestinal Epithelium Differentiation Media Pack	
				■		MITO+ Serum Extender	
				■		Seeding Basal Medium	
		■				HUVEC-2	
	■	■	■	■	■	Calcein AM	
	■	■	■	■	■	$DiIC_{12}(3)$	
■	■	■	■	■	■	Dispase	
■	■	■	■	■	■	Cell Recovery Solution	
■						BD BioCoat™ Matrigel™ Matrix Plates for Embryonic Stem Cell Culture	Cell Culture Tools
	■	■		■	■	BD BioCoat Collagen I Cellware	
	■					BD BioCoat Matrigel Matrix - for hepatocytes	
			■	■	■	BD BioCoat Poly-Lysine Cellware	
■			■		■	BD BioCoat Laminin Cellware	
			■		■	BD BioCoat Poly-L-Ornithine/Laminin Cellware	
			■		■	BD BioCoat Poly-D-Lysine/Laminin Cellware	
■	■	■	■	■	■	BD Falcon™ Tissue Culture-treated Flasks	
■	■	■	■	■	■	BD Falcon CultureSlides	
■	■	■	■	■	■	BD Falcon 96-well Imaging Plates	
■	■	■	■	■	■	BD Primaria™ Cultureware	
	■					Cholyl-lysyl-Fluorescein (CLF)	Hepato-cytes
	■					BD Gentest™ Hepatocytes	
	■					Hepatocyte Differentiation Environment	Cell Environments
		■				Endothelial Cell Growth Environment	
		■				BD BioCoat Angiogenesis System: Endothelial Cell Tube Formation	
		■				BD BioCoat Angiogenesis System: Endothelial Cell Migration	
		■				BD BioCoat Angiogenesis System: Endothelial Cell Invasion	
				■		BD BioCoat Intestinal Epithelium Differentiation Environment	
				■		BD BioCoat HTS Caco-2 Assay System	
					■	BD BioCoat Matrigel Invasion Chamber	
					■	BD BioCoat Tumor Invasion System	
				■		BD BioCoat Fibrillar Collagen Cell Culture Inserts	Membrane Insert Systems
				■		BD BioCoat Fibrillar Collagen 24-Multiwell Insert System	
■	■	■	■	■	■	BD BioCoat and BD Falcon Inserts	

For guideline use only. This is not a complete list of all applications for these products.

Cell Culture Surfaces

BD Biosciences offers a wide variety of surface chemistries and attachment factors appropriate for a broad range of applications. The surface of our BD Falcon™ Cultureware is rendered permanently hydrophilic via a unique vacuum-gas plasma tissue culture treatment process. This treatment process is produced in a closed, highly controlled environment ensuring a consistent treatment surface. BD Primaria™ and BD BioCoat™ surface options are ideal for enhanced cell attachment and growth of a variety of primary cells, stem cells, and transformed cell lines in serum-free or serum-containing cultures. A non-treated surface is also available for suspension or non-adherent cell culture and may also be used to study cell-cell or cell-protein interactions in an *in vitro* system.

BD Falcon Non-treated Polystyrene

- Hydrophobic surface with low to moderate binding properties. Ideal for cell-cell or cell-protein studies.

BD Falcon Tissue Culture-treated (TC)

- Hydrophilic surface enhances cell attachment, spreading, and cell growth by binding serum proteins to the surface. Highly controlled vacuum-gas plasma treatment creates negatively charged carboxyl groups on the polystyrene surface.
- Tested for confluency of MRC-5 cells and sterilized by gamma-irradiation.

BD Primaria

- Supports neuronal, primary, endothelial, and tumor cells which may have difficulty attaching to or differentiate poorly on traditional TC surfaces. This surface has a unique mixture of negative and nitrogen containing positive functional groups on the polystyrene surface.
- The surface consistency of each lot is confirmed by electron spectroscopy chemical analysis (ESCA).

BD BioCoat Poly-D-Lysine (PDL)

- Pre-coated with PDL, which promotes cell attachment of transfected and primary cells (e.g., neuronal).
- Tested for the ability to promote firm attachment of rat cerebellar granule (RCG) cells.
- Stable for six months from date of shipment at 4-30°C. Coverslips, CultureSlides, and Coverslip-Bottom Dishes stable for at least three months from date of shipment at 4°C.

BD BioCoat Collagen I

- Pre-coated with Collagen I, derived from rat tail tendon.
- Tested for the ability to promote attachment and spreading of HT-1080 human fibrosarcoma cells.
- Stable for at least six months from date of shipment when stored at 4-30°C under dry conditions. Coverslips and CultureSlides are stable for at least three months from date of shipment when stored at 2-8°C.

BD BioCoat Collagen IV

- Pre-coated with Collagen IV. Useful as a substrate for nerve, epithelial, endothelial, and muscle cells.
- Tested for the ability to promote attachment and spreading of PC12 rat pheochromocytoma cells or to initiate differentiation (neurite outgrowth) of NG-108 rat glioma/mouse neuroblastoma cells.
- Stable for at least three months at 2-8°C. Do not freeze.

BD BioCoat Gelatin

- Pre-coated with Gelatin, which is commonly used for culture of vascular endothelial cells and F9 teratocarcinoma cells.
- Tested to promote proliferation of Human Umbilical Vein Endothelial Cells (HUVEC).
- Stable for at least three months from date of shipment when stored at 4-30°C under dry conditions.

BD BioCoat Fibronectin

- Pre-coated with Human Fibronectin (HFN), which promotes cell attachment through integrin binding. HFN promotes cellular migration during wound healing and improves survival of primary cells.
- Tested to promote attachment and spreading of BHK-1 hamster kidney cells.
- Stable for at least three months at 2-8°C. Do not freeze.

BD BioCoat Laminin

- Pre-coated with Laminin, a major component of the basement membrane used as a substrate to culture and maintain differentiated functions of a variety of cells including neuroblastoma cells and breast cancer cell lines.
- Tested for the ability to initiate neurite outgrowth of NG-108 rat glioma/mouse neuroblastoma cells.
- Stable for at least three months at 2-8°C. Do not freeze.

BD BioCoat Laminin/Fibronectin

- Pre-coated with a combination of ECMs, which provide superior attachment and growth of glial precursor cells.
- Tested for receptor agonist induced changes in intracellular calcium-using FLUO-3 in primary rat cortical enriched cultures.
- Stable for at least three months at 2-8°C. Do not freeze.

BD BioCoat Poly-D-Lysine/Laminin (PDL/Laminin)

- Pre-coated with a combination of ECMs, which supports neuronal differentiation of human and mouse stem cells.
- Tested for the ability to promote neurite outgrowth with primary rat cerebellar granule (RCG) cells and NG-108 rat glioma/mouse neuroblastoma cells.
- Stable for at least 3 months at 2-8°C. Do not freeze.

BD BioCoat Poly-L-Ornithine/Laminin (PLO/Laminin)

- Pre-coated with a combination of ECMs, which support growth of neuroblastoma cells and differentiation of N2a and ScN3a cells.
- Tested for the ability to promote neurite outgrowth with primary rat cerebellar granule (RCG) cells and NG-108 rat glioma/mouse neuroblastoma cells.
- Stable for at least three months at 2-8°C. Do not freeze.

BD BioCoat Matrigel™ Matrix

- Pre-coated with solubilized basement membrane matrix extracted from Engelbreth-Holm-Swarm (EHS) mouse sarcoma. Rich in ECM proteins, especially laminin, collagen IV, heparin sulphate proteoglycans, and entactin.
- Tested for the ability to promote neurite outgrowth from chick dorsal root ganglia in the absence of Nerve Growth Factor (NGF).
- Stable for at least three months at -20°C. Keep frozen until use.