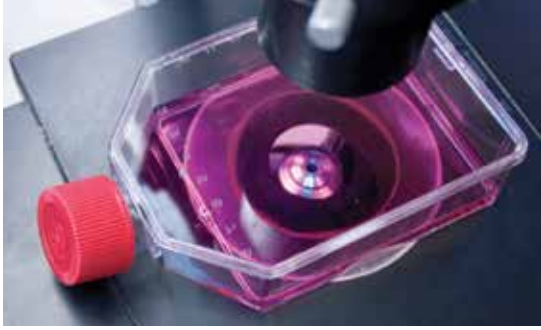

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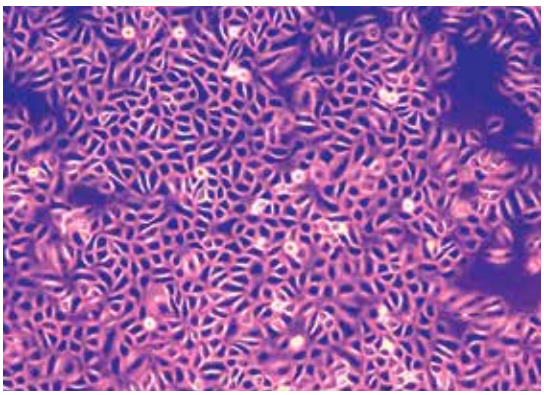
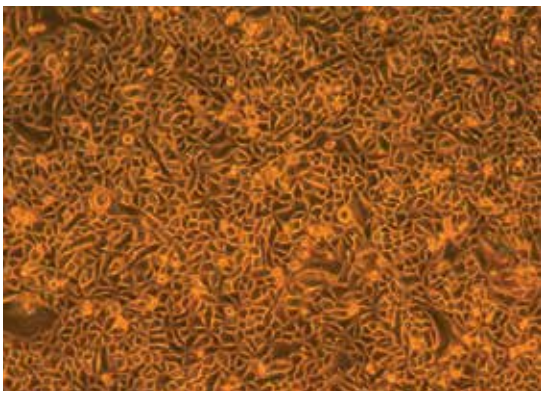
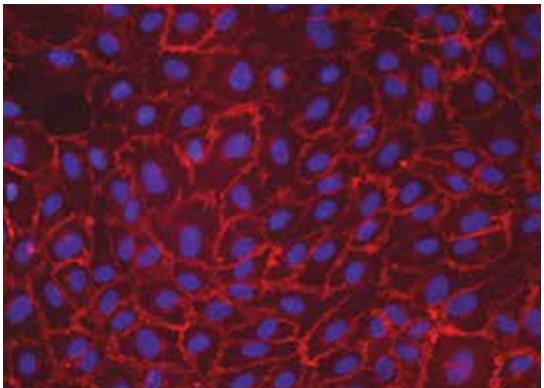
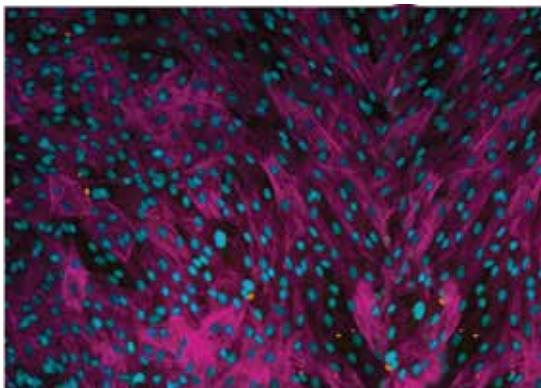






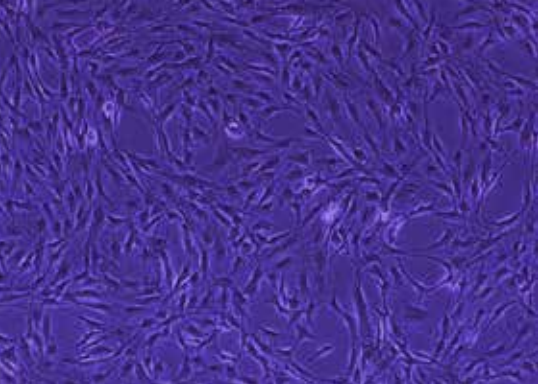
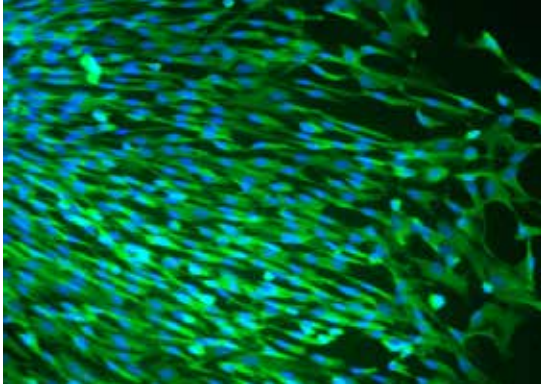
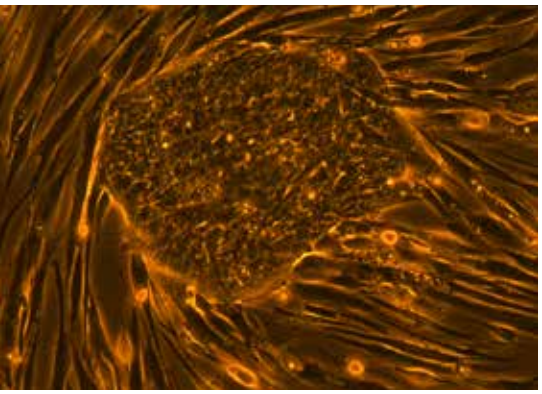
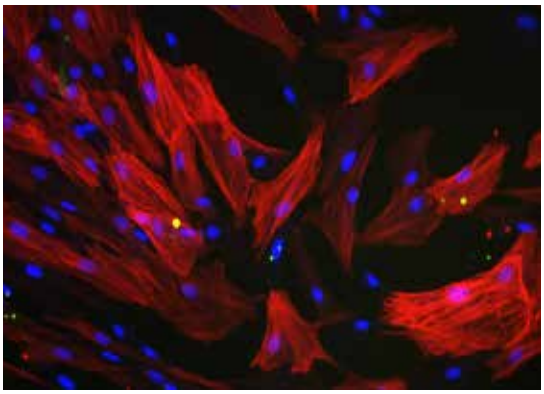


Primary cell cultures more closely mimic the physiological state of cells *in vivo* and generate more relevant data representing living organisms.[1]

ATCC® Primary Cell Solutions® is a system of matched components designed to maximize growth, maximize functionality and maintain normal morphology for specific cell types. Putting all the pieces together adds up to your success.

Primary Cells							Media	Growth Kits	Reagents		Great Data
Cell Type	**Product Name**	**ATCC® No.**	**Species**	**Number of viable cells-post thaw**	**Passage at freezing**	**Cells tested upon thaw to achieve**	**Basal media**	**Growth kit**	**Reagents and supplements**	**Additional Reagents**	**Applications**
Endothelial Cells	Umbilical Vein Endothelial Cells; Normal, Human	PCS-100-010	Human	≥5 x 10^5	1	≥15 PDL	Vascular Cell Basal Medium (ATCC® No. PCS-100-030)	Endothelial Cell Growth Kit-BBE (ATCC® No. PCS-100-040) or Endothelial Cell Growth Kit-VEGF (ATCC® No. PCS-100-041)	Phenol Red (ATCC® No. PCS-999-001); D-PBS (ATCC® No. 30-2200); Trypsin-EDTA for Primary Cells (ATCC® No. PCS-999-003); Trypsin Neutralizing Solution (ATCC® No. PCS-999-004)	NA	Physiological and pharmacological investigations, such as macromolecule transport, blood coagulation, angiogenesis, and fibrinolysis
	Umbilical Vein Endothelial Cells; Normal, Human, Pooled	PCS-100-013	Human	≥5 x 10^5	2	≥15 PDL					
	Aortic Endothelial Cells; Normal, Human	PCS-100-011	Human	≥5 x 10^5	2	≥15 PDL					Studies of vascular diseases such as thrombosis, atherosclerosis, metabolism, hypertension, stent-graft compatibility testing, and membrane conductance models
	Coronary Artery Endothelial Cells; Normal, Human	PCS-100-020	Human	≥5 x 10^5	3	≥15 PDL					
	Pulmonary Artery Endothelial Cells; Normal, Human	PCS-100-022	Human	≥5 x 10^5	3	≥15 PDL					
	Dermal Microvascular Endothelial Cells; Normal, Human, Neonatal	PCS-110-010	Human	≥5 x 10^5	3	≥15 PDL		Microvascular Endothelial Cell Growth Kit-BBE (ATCC® No. PCS-110-040) or Microvascular Endothelial Cell Growth Kit-VEGF (ATCC® No. PCS-110-041)			Studies of microvascular functions and cutaneous inflammation
Smooth Muscle Cells	Aortic Smooth Muscle Cells; Normal, Human	PCS-100-012	Human	≥5 x 10^5	2	≥15 PDL	Vascular Cell Basal Medium (ATCC® No. PCS-100-030)	Vascular Smooth Muscle Cell Growth Kit (ATCC® No. PCS-100-042)	Phenol Red (ATCC® No. PCS-999-001); D-PBS (ATCC® No. 30-2200); Trypsin-EDTA for Primary Cells (ATCC® No. PCS-999-003); Trypsin Neutralizing Solution (ATCC® No. PCS-999-004)	NA	Studies of vascular diseases such as thrombosis, and atherosclerosis
	Coronary Artery Smooth Muscle Cells; Normal, Human	PCS-100-021	Human	≥5 x 10^5	2	≥15 PDL					
	Pulmonary Artery Smooth Muscle Cells; Normal, Human	PCS-100-023	Human	≥5 x 10^5	2	≥15 PDL					
Epithelial Cells	Small Airway Epithelial Cells; Normal, Human	PCS-301-010	Human	≥5 x 10^5	1	≥15 PDL	Airway Epithelial Cell Basal Medium (ATCC® No. PCS-300-030)	Small Airway Epithelial Cell Growth Kit (ATCC® No. PCS-301-040) or Bronchial Epithelial Cell Growth kit (ATCC® No. PCS-300-040)	Phenol Red (ATCC® No. PCS-999-001); D-PBS (ATCC® No. 30-2200); Trypsin-EDTA for Primary Cells (ATCC® No. PCS-999-003); Trypsin Neutralizing Solution (ATCC® No. PCS-999-004)	NA	Asthma, airway inflammation, and wound healing, pulmonary fibrosis, COPD, cancer, toxicology, intracellular pH regulations, IL-1b effect to stimulate airway epithelial cell growth, ICAM-1 expression
	Bronchial/Tracheal Epithelial Cells; Normal, Human	PCS-300-010	Human	≥5 x 10^5	1	≥15 PDL					
	Renal Proximal Tubule Epithelial Cells; Normal, Human	PCS-400-010	Human	≥5 x 10^5	2	≥15 PDL	Renal Epithelial Cell Basal Medium (ATCC® No. PCS-400-030)	Renal Epithelial Cell Growth Kit (ATCC® No. PCS-400-040)			*In vitro* studies of osmoregualtion and excretion, renal fibrosis, inflammation, as well as applications in drug screening/development, such as hypertension, diabetes, oncology, autoimmune disease, and toxicology screening
	Renal Cortical Epithelial Cells; Normal, Human	PCS-400-011	Human	≥5 x 10^5	1	≥15 PDL					
	Renal Mixed Epithelial Cells; Normal, Human	PCS-400-012	Human	≥5 x 10^5	1	≥15 PDL					
	Prostate Epithelial Cells; Normal, Human	PCS-440-010	Human	≥5 x 10^5	2	≥15 PDL	Prostate Epithelial Cell Basal Medium (ATCC® No. PCS-440-030)	Prostate Epithelial Cell Growth Kit (ATCC® No. PCS-440-040)			Hormonal regulation of the prostate, the secretory function of prostate cells, and prostate cancer
	Corneal Epithelial Cells; Normal, Human	PCS-700-010	Human	≥5 x 10^5	2	3 passages	Corneal Epithelial Cell Basal Medium (ATCC® No. PCS-700-030)	Corneal Epithelial Cell Growth Kit (ATCC® No. PCS-700-040)			Cell de-differentiation, toxicology testing and drug development
	Mammary Epithelial Cells; Normal, Human	PCS-600-010	Human	≥5 x 10^5	2	≥15 PDL	Mammary Epithelial Cell Medium (ATCC® No. PCS-600-030)	Mammary Epithelial Cell Growth Kit (ATCC® No. PCS-600-040)			A normal *in vitro* control, useful for studying stages of breast cancer development, three dimensional culture and carcinogen screening
Fibroblasts	Dermal Fibroblasts; Normal, Human Neonatal	PCS-201-010	Human	≥5 x 10^5	1	≥10 PDL in serum-free medium	Fibroblast Basal Medium (ATCC® No. PCS-201-030)	Fibroblast Growth Kit–Serum-Free (ATCC® No. PCS-201-040) or Fibroblast Growth Kit–Low Serum (ATCC® No. PCS-201-041)	Phenol Red (ATCC® No. PCS-999-001); D-PBS (ATCC® No. 30-2200); Trypsin-EDTA for Primary Cells (ATCC® No. PCS-999-003); Trypsin Neutralizing Solution (ATCC® No. PCS-999-004)	0.1% Gelatin Solution (ATCC® No. PCS-999-027) only for use with Mitomicin C treated Dermal Fibroblasts	Wound healing studies, tissue engineering and regeneration applications, as well as induction of pluripotent stem (iPSCs)
	Dermal Fibroblasts; Normal, Human Neonatal, Mitomicin C treated	PCS-201-011	Human	≥3 x 10^6	2	No growth or divison beyond 4 weeks					Feeder cells for use with human stem cells and keratinocytes
	Dermal Fibroblasts; Normal, Human Adult	PCS-201-012	Human	≥5 x 10^5	1	≥10 PDL in serum-free medium					Wound healing studies, tissue engineering and regeneration applications, as well as induction of pluripotent stem (iPSCs)
Keratinocytes	Epidermal Keratinocytes; Normal, Human, Neonatal Foreskin	PCS-200-010	Human	≥5 x 10^5	1	≥15 PDL	Dermal Cell Basal Medium (ATCC® No. PCS-200-030)	Keratinocyte Growth Kit (ATCC® No. PCS-200-040)	Phenol Red (ATCC® No. PCS-999-001); D-PBS (ATCC® No. 30-2200); Trypsin-EDTA for Primary Cells (ATCC® No. PCS-999-003); Trypsin Neutralizing Solution (ATCC® No. PCS-999-004)	NA	Studies of growth factor activity, wound healing, toxicity/ irritancy studies, and use as target cells for derivation of induced pluripotent stem cells
	Epidermal Keratinocytes; Normal, Human, Adult	PCS-200-011	Human	≥5 x 10^5	1	≥15 PDL					
Melanocytes	Epidermal Melanocytes; Normal, Human, Neonatal Foreskin	PCS-200-012	Human	≥5 x 10^5	2	≥15 PDL	Dermal Cell Basal Medium (ATCC® No. PCS-200-030)	Melanocyte Growth Kit (ATCC® No. PCS-200-041)	Phenol Red (ATCC® No. PCS-999-001); D-PBS (ATCC® No. 30-2200); Trypsin-EDTA for Primary Cells (ATCC® No. PCS-999-003); Trypsin Neutralizing Solution (ATCC® No. PCS-999-004)	NA	Wound healing, testing models for toxicity/irritancy studies, melanoma, dermal response to UV radiation, psoriasis and other skin diseases, and cosmetic research
	Epidermal Melanocytes; Normal, Human, Adult	PCS-200-013	Human	≥5 x 10^5	2	≥15 PDL					
Mesenchymal Stem Cells	Umbilical Cord-Derived Mesenchymal Stem Cells; Normal, Human	PCS-500-010	Human	≥5 x 10^5	2	≥10 PDL	Mesenchymal Stem Cell Basal Medium (ATCC® No. PCS-500-030)	Mesenchymal Stem Cell Growth Kit-Low Serum (ATCC® No. PCS-500-040)	Phenol Red (ATCC® No. PCS-999-001); D-PBS (ATCC® No. 30-2200); Trypsin-EDTA for Primary Cells (ATCC® No. PCS-999-003); Trypsin Neutralizing Solution (ATCC® No. PCS-999-004)	Adipocyte Differentiation Tool (ATCC® No. PCS-500-050) Chondrocyte Differentiation Tool (ATCC® No. PCS-500-051) Osteocyte Differentiation Tool (ATCC® No. PCS-500-052)	Stem cell differentiation, induced pluripotent stem cell research, tissue engineering, cell therapy, and regenerative medicine
	Adipose-Derived Mesenchymal Stem Cells; Normal, Human	PCS-500-011	Human	≥1 x 10^6	2	≥10 PDL					
	Bone Marrow-Derived Mesenchymal Stem Cells; Normal, Human	PCS-500-012	Human	≥1 x 10^6	2	≥10 PDL		Mesenchymal Stem Cell Growth Kit for Bone Marrow MSCs (ATCC® No. PCS-500-041)		Adipocyte Differentiation Toolkit for BM-MSCs (ATCC® No. PCS-500-053)	Useful as an *in vitro* model for the study of multipotent stem cell biology, differentiation, and regenerative medicine and tissue engineering
	Primary Subcutaneous Preadipocyte; Normal, Human	PCS-210-010	Human	≥1 x 10^6	2	≥15 PDL	Fibroblast Basal Medium (ATCC® No. PCS-201-030)	Fibroblast Growth Kit –Low Serum (ATCC® No. PCS-201-041)	D-PBS (ATCC® No. 30-2200); Trypsin-EDTA for Primary Cells (ATCC® No. PCS-999-003); Trypsin Neutralizing Solution (ATCC® No. PCS-999-004)	Adipocyte Differentiation Tool (ATCC® No. PCS-500-050)	Differentiation research, tissue engineering, cell therapy, and regenerative medicine

[1]Compared to continuous cell lines

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