

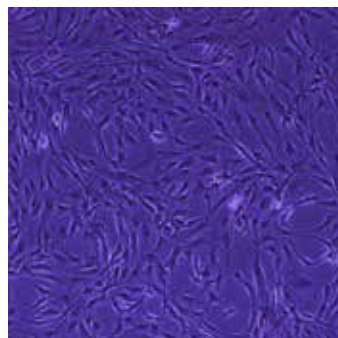
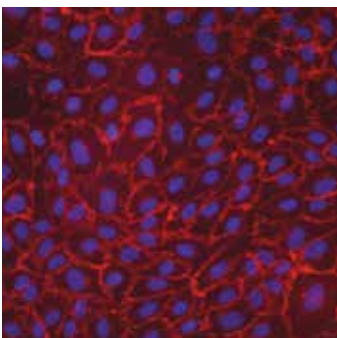
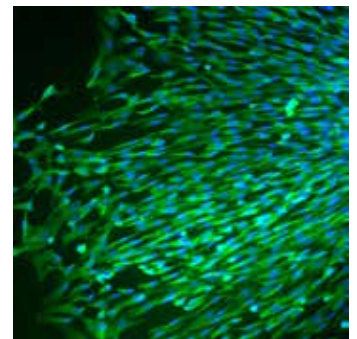
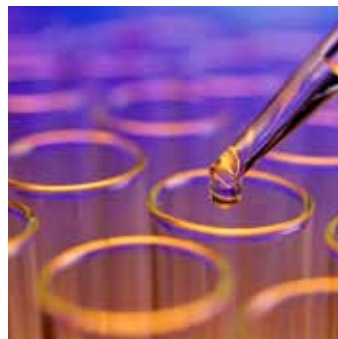
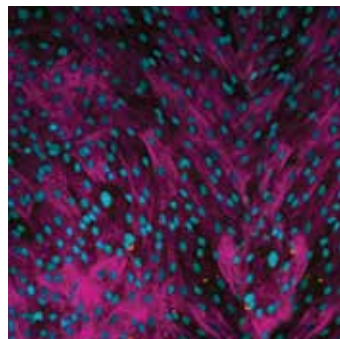
Primary Cell Solutions®

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

ATCC Primary Cell Solutions is a system of matched components designed to boost growth, maximize functionality, and maintain normal morphology for each primary cell type. The combination of an optimized basal medium and cell-specific growth kits is a crucial element in the ATCC Primary Cell Solutions product line. Each set is designed to eliminate the guesswork involved with finding just the right complement of growth factors to support and promote cell proliferation and the expression of relevant biomarkers for each cell type - a complete lab tested "solution" to your primary cell culture needs.

ATCC Primary Cells are well characterized, having undergone tests for sterility and viability. In addition, primary cells are subjected to consistent isolation and processing, which minimizes the variation between individual tubes as well as lots. Also, ATCC Technical Services can provide additional donor information to aid in selecting the most relevant primary cell lots to guarantee the optimal outcome for your experiments.

ATCC Primary Cell Solutions basal media have been quality tested with each respective cell type to ensure that the vital needs of the individual culture are consistently met. The basal media are sterile, phenol red-free, liquid tissue culture media intended for use as one component in a complete system. Supplementation of the basal media with an ATCC Primary Cell Solutions growth kit is essential in creating an optimal growth environment for cellular response.



Primary Cells, Supporting Media, and Growth Kits

The table below is organized by cell type and includes the number of cells that are contained in each vial of primary cells. Also in the table, the product numbers of matched basal media and growth kits are provided for ease of ordering as well as to ensure the optimal growth and performance of your primary cells.


| Cell Type | Product Name | ATCC® No. | Number of Cells/vial | Growth Kit | Basal Media |
|--------------------------------|---|--------------|---|---|--|
| Endothelial Cells | Aortic Endothelial Cells | PCS-100-011™ | 500,000 | Endothelial Cell Growth Kit-BBE (ATCC® PCS-100-040™) or Endothelial Cell Growth Kit-VEGF (ATCC® PCS-100-041™) | Vascular Cell Basal Medium (ATCC® PCS-100-030™) |
| | Coronary Artery Endothelial Cells | PCS-100-020™ | 500,000 | | |
| | Umbilical Vein Endothelial Cells | PCS-100-010™ | 500,000 | | |
| | Umbilical Vein Endothelial Cells; Pooled | PCS-100-013™ | 500,000 | Microvascular Endothelial Cell Growth Kit-BBE (ATCC® PCS-110-040™) or Microvascular Endothelial Cell Growth Kit-VEGF (ATCC® PCS-110-041™) | |
| | Dermal Microvascular Endothelial Cells; Neonatal | PCS-110-010™ | 500,000 | | |
| | Pulmonary Artery Endothelial Cells | PCS-100-022™ | 500,000 | | |
| Muscle Cells | Aortic Smooth Muscle Cells | PCS-100-012™ | 500,000 | Vascular Smooth Muscle Cell Growth Kit (ATCC® PCS-100-042™) | Vascular Cell Basal Medium (ATCC® PCS-100-030™) |
| | Bladder Smooth Muscle Cells | PCS-420-012™ | 500,000 | | |
| | Bronchial/Tracheal Smooth Muscle Cells | PCS-130-011™ | 500,000 | | |
| | Coronary Artery Smooth Muscle Cells | PCS-100-021™ | 500,000 | | |
| | Lung Smooth Muscle Cells | PCS-130-010™ | 500,000 | | |
| | Pulmonary Artery Smooth Muscle Cells | PCS-100-023™ | 500,000 | | |
| | Uterine Smooth Muscle Cells | PCS-460-011™ | 500,000 | Primary Skeletal Cell Muscle Growth Kit (ATCC® PCS-950-040™) | |
| Epithelial Cells | Bladder Epithelial Cells (A/T/N) | PCS-420-010™ | 500,000 | Corneal Epithelial Growth Kit (ATCC® PCS-700-040™) | Prostate Epithelial Basal Medium (ATCC® PCS-440-030™) |
| | Bronchial/Tracheal Epithelial Cells | PCS-300-010™ | 500,000 | Bronchial Epithelial Cell Growth Kit (ATCC® PCS-300-040™) | Airway Epithelial Cell Basal Medium (ATCC® PCS-300-030™) |
| | Small Airway Epithelial Cells | PCS-301-010™ | 500,000 | | |
| | Cervical Epithelial Cells | PCS-480-011™ | 500,000 | Cervical Epithelial Growth Kit (ATCC® PCS-480-042) | Cervical Epithelial Cell Basal Medium (ATCC® PCS-480-032™) |
| | Corneal Epithelial Cells | PCS-700-010™ | 500,000 | Corneal Epithelial Growth Kit (ATCC® PCS-700-040™) | Corneal Epithelial Cell Basal Medium (ATCC® PCS-700-030™) |
| | Mammary Epithelial Cells | PCS-600-010™ | 500,000 | Mammary Epithelial Cell Growth Kit (ATCC® PCS-600-040™) | Mammary Epithelial Cell Medium (ATCC® PCS-600-030™) |
| | Prostate Epithelial Cells | PCS-440-010™ | 500,000 | Prostate Epithelial Cell Growth Kit (ATCC® PCS-440-040™) | Prostate Epithelial Basal Medium (ATCC® PCS-440-030™) |
| | Renal Cortical Epithelial Cells | PCS-400-011™ | 500,000 | Renal Epithelial Cell Growth Kit (ATCC® PCS-400-040™) | Renal Epithelial Cell Basal Medium (ATCC® PCS-400-030™) |
| | Renal Mixed Epithelial Cells | PCS-400-012™ | 500,000 | | |
| | Renal Proximal Tubule Epithelial Cells | PCS-400-010™ | 500,000 | | |
| Primary Lobar Epithelial Cells | PCS-300-015™ | 500,000 | Bronchial Epithelial Cell Growth Kit (ATCC® PCS-300-040™) | Airway Epithelial Cell Basal Medium (ATCC® PCS-300-030™) | |
| Fibroblasts | Bladder Fibroblast Cells | PCS-420-013™ | 500,000 | Fibroblast Growth Kit-Low serum (ATCC® PCS-201-041™) | Fibroblast Basal Medium (ATCC® PCS-201-030™) |
| | Dermal Fibroblasts; Adult | PCS-201-012™ | 500,000 | Fibroblast Growth Kit, Serum-free (ATCC® PCS-201-040™) or Fibroblast Growth Kit, Low Serum (ATCC® PCS-201-041™) | |
| | Dermal Fibroblasts; Neonatal | PCS-201-010™ | 500,000 | | |
| | Dermal Fibroblasts; Neonatal, Mitomicin C-treated | PCS-201-011™ | 3 million | Fibroblast Growth Kit-Low serum (ATCC® PCS-201-041™) | |
| | Gingival Fibroblast | PCS-201-018™ | 500,000 | Fibroblast Growth Kit-Low serum (ATCC® PCS-201-041™) | |
| | Uterine Fibroblasts | PCS-460-010™ | 500,000 | | |

| Cell Type | Product Name | ATCC® No. | Number of Cells/vial | Growth Kit | Basal Media |
|---|---|--------------|----------------------|--|---|
| Blood and Marrow Cells | Bone Marrow CD34+ Cells | PCS-800-012™ | 500,000 | Application-specific* | |
| | Bone Marrow Mononuclear Cells | PCS-800-013™ | 25 million | | |
| | Cord Blood CD34+ Cells | PCS-800-014™ | 500,000 | | |
| | iPSC-derived Mesenchymal Stem Cells, BYS0112 | ACS-7010™ | 3 million | | |
| | iPSC-derived CD34+ Cells, BXS0117 | ACS-7020™ | 3 million | | |
| | iPSC-derived Monocytes, DYS0100 | ACS-7030™ | 3 million | | |
| | Peripheral Blood CD14+ Monocytes | PCS-800-010™ | 50 million | | |
| | Peripheral Blood Mononuclear Cells (PBMC) | PCS-800-011™ | 25 million | | |
| | Peripheral Blood CD4+ Helper T Cells | PCS-800-016™ | 500,000 | | |
| | Peripheral Blood CD8+ Cytotoxic T Cells | PCS-800-017™ | 25 million | | |
| | Peripheral Blood CD19+ B Cells | PCS-800-018™ | 25 million | | |
| Peripheral Blood CD56+ Natural Killer Cells | PCS-800-019™ | 5 million | | | |
| Keratinocytes | Epidermal Keratinocytes; Adult | PCS-200-011™ | 500,000 | Keratinocyte Growth Kit (ATCC® PCS-200-040™) | Dermal Cell Basal Medium (ATCC® PCS-200-030™) |
| | Epidermal Keratinocytes; Neonatal Foreskin | PCS-200-010™ | 500,000 | | |
| | Gingival Keratinocytes | PCS-200-014™ | 500,000 | | |
| Melanocytes | Epidermal Melanocytes; Adult | PCS-200-013™ | 500,000 | Melanocyte Growth Kit (ATCC® PCS-200-041™) | Dermal Cell Basal Medium (ATCC® PCS-200-030™) |
| | Epidermal Melanocytes; Neonatal Foreskin | PCS-200-012™ | 500,000 | Adult Melanocyte Growth Kit (ATCC® PCS-200-042™) | |
| Mesenchymal Stem Cells | Adipose-derived Mesenchymal Stem Cells | PCS-500-011™ | 1 million | Mesenchymal Stem Cell Growth Kit (ATCC® PCS-500-040™) | Mesenchymal Stem Cell Basal Medium (ATCC® PCS-500-030™) |
| | Umbilical Cord-derived Mesenchymal Stem Cells | PCS-500-010™ | 500,000 | | |
| | Bone Marrow-derived Mesenchymal Stem Cells | PCS-500-012™ | 1 million | Mesenchymal Stem Cell Growth Kit for Bone Marrow MSCs (ATCC® PCS-500-041™) | |
| | Subcutaneous Preadipocytes | PCS-210-010™ | 1 million | Fibroblast Growth Kit, Low Serum (ATCC® PCS-201-401™) | |

*Blood and bone marrow cells have a limited lifespan in culture and should only be thawed immediately prior to their intended use. ATCC does not recommend maintaining blood and bone marrow cells in culture in the absence of application-specific growth factors.


See our online catalog at www.atcc.org/PCS for a full description of each item and to see an up-to-date listing. For a listing of primary cells immortalized by hTERT, visit www.atcc.org/hTERT.

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PC-08132019-v12

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