

Reference guide
for human and animal cells from
normal to diseased, fresh and
cryopreserved

Lonza

Pharma & Biotech

Primary Cells and Media



Primary Cells and Media

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Lonza offers a comprehensive collection of primary cells and media products supporting many research areas. Our brand is well-recognized for its outstanding Scientific Support Team and its dedication to consistent, high-performing products for more than 30 years.

Lonza's Cryopreserved Human Primary Cells Are:

- Easy-to-use – Removes time-dependencies with tissue procurement and isolations. Ready-to-use cells.
- Ideal for Scale Up – Cells are produced as large batches. Same batch can be stored, archived and utilized as needed for long-term studies
- Authenticated – Thorough quality control testing completed to assure cell identity
- Guaranteed to Perform – When used with recommended media, reagents and protocols
- Adherent to Procurement Standards – All tissue utilized for our human cell products is ethically obtained with documented, legal permission for research use.

Upon request, detailed donor information including medical history can be provided both for normal and diseased cells.

Contact Scientific Support for further details.

These products are for research use only. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or *in vivo* procedures.

Product Warranty – Cultures have a finite lifespan *in vitro*. Lonza guarantees the performance of its cells up to two years from purchase only if appropriate Clonetics™ or Poietics™ Media and Reagents are used exclusively, and the recommended storage and use protocols are followed. Cell and media performance is not guaranteed if any modifications are made to the complete cell system.

Cryopreserved Human Primary Cells

Cell Abbreviation	Description	Cell Cat. No.	Recommended Medium	BulletKit™ Cat. No.	Basal Cat. No.	SingleQuot™ Cat. No.
Adipose (Fat) Cells – Normal and Diseased						
ADSC	Adipose-derived stem cells	PT-5006	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
Pr-Ad-S	Preadipocytes - subcutaneous	PT-5001, PT-5020	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502
Pr-Ad-V	Preadipocytes - visceral	PT-5005	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502
D-ADSC-Diab T1	{Diabetic Type 1} Adipose-derived stem cells	PT-5007	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
D-ADSC-Diab T2	{Diabetic Type 2} Adipose-derived stem cells	PT-5008	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
D-PrAd-S-Diab T1	{Diabetic Type 1} Subcutaneous preadipocyte cells	PT-5021	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502
D-PrAd-S-Diab T2	{Diabetic Type 2} Subcutaneous preadipocyte cells	PT-5022	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502
D-PrAd-V-Diab T1	{Diabetic Type 1} Visceral preadipocyte cells	PT-5023	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502
D-PrAd-V-Diab T2	{Diabetic Type 2} Visceral preadipocyte cells	PT-5024	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502
Airway Cells – Normal and Diseased						
SAEC	Small airway epithelial cells	CC-2547	SAGM™ BulletKit™	CC-3118	CC-3119	CC-4124
SAEC-ALI	Small airway epithelial cells guaranteed for ALI differentiation	CC-2547S	S-ALI™ BulletKit™	CC-4539		
NHBE with RA	Bronchial/Tracheal epithelial cells with retinoic acid	CC-2540	BEGM™ BulletKit™	CC-3170	CC-3171	CC-4175
NHBE without RA	Bronchial/Tracheal epithelial cells without retinoic acid	CC-2541	BEGM™ BulletKit™	CC-3170	CC-3171	CC-4175
NHBE-ALI	Bronchial/tracheal epithelial cells guaranteed for ALI differentiation	CC-2540S	B-ALI™ BulletKit™	193514	N/A	N/A
NHLF	Lung fibroblasts	CC-2512	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
HMVEC-L	Lung microvascular endothelial cells	CC-2527	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HPAEC	Pulmonary artery endothelial cells	CC-2530	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
BSMC	Bronchial smooth muscle cells	CC-2576	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
PASMC	Pulmonary artery smooth muscle cells	CC-2581	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
DHBE-As	{Asthma} Bronchial epithelial cells	194911	BEGM™ BulletKit™	CC-3170	CC-3171	CC-4175
DHBE-As-ALI	{Asthma} Bronchial epithelial cells guaranteed for ALI differentiation	194911S	B-ALI™ BulletKit™	193514		
DBSMC-As	{Asthma} Bronchial smooth muscle cells	194850	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
DHLF-As	{Asthma} Lung fibroblasts	194912	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
D-SAEC-As	{Asthma} Small airway epithelial cells	CC-2932	SAGM™ BulletKit™	CC-3118	CC-3119	CC-4124
DHBE-COPD	{COPD} Bronchial epithelial cells	195275	BEGM™ BulletKit™	CC-3170	CC-3171	CC-4175
DHBE-COPD-ALI	{COPD} Bronchial epithelial cells guaranteed for ALI differentiation	195275S	B-ALI™ BulletKit™	193514	N/A	N/A
DBSMC-COPD	{COPD} Bronchial smooth muscle cells	195274	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
DHLF-COPD	{COPD} Lung fibroblasts	195277	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
D-SAEC-COPD	{COPD} Small airway epithelial cells	CC-2934	SAGM™ BulletKit™	CC-3118	CC-3119	CC-4124
DHBE-CF	{Cystic Fibrosis} Bronchial/Tracheal epithelial cells	196979	BEGM™ BulletKit™	CC-3170	CC-3171	CC-4175
DBSMC - CF	{Cystic Fibrosis} Bronchial smooth muscle cells	196980	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
DHLF-CF	{Cystic Fibrosis} Lung fibroblasts	194843	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
D-SAEC-CF	{Cystic Fibrosis} Small airway epithelial cells	CC-2933	SAGM™ BulletKit™	CC-3118	CC-3119	CC-4124
D-HPAEC-Diab T1	{Diabetic Type 1} Pulmonary artery endothelial cells	CC-2923	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176

Cell Abbreviation	Description	Cell Cat. No.	Recommended Medium	BulletKit™ Cat. No.	Basal Cat. No.	SingleQuot™ Cat. No.
D-PASMC-Diab T1	{Diabetic Type 1} Pulmonary artery smooth muscle cells	CC-2915	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-HPAEC-Diab T2	{Diabetic Type 2} Pulmonary artery endothelial cells	CC-2924	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
D-PASMC-Diab T2	{Diabetic Type 2} Pulmonary artery smooth muscle cells	CC-2913	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
DHLF-IPL	{Idiopathic Lung Fibrosis} Lung fibroblasts	CC-7231	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126

Cardiac Cells – Normal and Diseased

HAEC	Aortic endothelial cells	CC-2535	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
AoSMC	Aortic smooth muscle cells	CC-2571	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
HCAEC	Coronary artery endothelial cells	CC-2585	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
CASMC	Coronary artery smooth muscle cells	CC-2583	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
HMVEC-C	Cardiac microvascular endothelial cells	CC-7030	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
AoAF	Aortic adventitial fibroblasts	CC-7014	SCGM™ BulletKit™	CC-3205	CC-3204	CC-4181
NHCF-A	Atrial cardiac fibroblasts	CC-2903	FGM™ 3 BulletKit™	CC-4526	CC-3131	CC-4525
NHCF-V	Ventricle cardiac fibroblasts	CC-2904	FGM™ 3 BulletKit™	CC-4526	CC-3131	CC-4525
HPAEC	Pulmonary artery endothelial cells	CC-2530	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
PASMC	Pulmonary artery smooth muscle cells	CC-2581	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-AoSMC-Diab T1	{Diabetic Type 1} Aortic smooth muscle cells	CC-2914	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-3181
D-HAEC-Diab T1	{Diabetic Type 1} Aortic endothelial cells	CC-2919	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-3156
D-HPAEC-Diab T1	{Diabetic Type 1} Pulmonary artery endothelial cells	CC-2923	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-3156
D-PASMC-Diab T1	{Diabetic Type 1} Pulmonary artery smooth muscle cells	CC-2915	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-3181
D-HCAEC-Diab T1	{Diabetic Type 1} Coronary artery endothelial cells	CC-2921	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-3156
D-CASMC-Diab T1	{Diabetic Type 1} Coronary artery smooth muscle cells	CC-2917	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-3181
D-HMVEC-C-Diab T1	{Diabetic Type 1} Cardiac microvascular endothelial cells	CC-2927	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-3156
D-HPAEC-Diab T2	{Diabetic Type 2} Pulmonary artery endothelial cells	CC-2924	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-3156
D-PASMC-Diab T2	{Diabetic Type 2} Pulmonary artery smooth muscle cells	CC-2913	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-3181
D-AoSMC-Diab T2	{Diabetic Type 2} Aortic smooth muscle cells	CC-2916	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-3181
D-HAEC-Diab T2	{Diabetic Type 2} Aortic endothelial cells	CC-2920	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-3156
D-HCAEC-Diab T2	{Diabetic Type 2} Coronary artery endothelial cells	CC-2922	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-3156
D-CASMC-Diab T2	{Diabetic Type 2} Coronary artery smooth muscle cells	CC-2918	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-3181
D-HMVEC-C-Diab T2	{Diabetic Type 2} Cardiac microvascular endothelial cells	CC-2928	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-3156

Dermal Cells – Normal and Diseased

HMVEC-dAd	Adult dermal microvascular endothelial cells (blood and lymphatic mix)	CC-2543	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-dNeo	Neonatal dermal microvascular endothelial cells (blood and lymphatic mix)	CC-2505	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
NHDF-Ad	Adult dermal fibroblasts	CC-2511	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
NHDF-Neo	Neonatal dermal fibroblasts	CC-2509	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126

Cell Abbreviation	Description	Cell Cat. No.	Recommended Medium	BulletKit™ Cat. No.	Basal Cat. No.	SingleQuot™ Cat. No.
NHEK-Ad	Epidermal keratinocytes, Adult	192627	KGM™ Gold BulletKit™	192060	192151	192152
NHEK-Neo	Epidermal keratinocytes, Neonatal	192907	KGM™ Gold BulletKit™	192060	192151	192152
NHEK-Neo Pooled	Epidermal keratinocytes, Neonatal pooled	192906	KGM™ Gold BulletKit™	192060	192151	192152
NHEM-Neo	Neonatal epidermal melanocytes	CC-2504	MGM™ 4 BulletKit™	CC-3249	CC-3250	CC-4435
NHEM-Ad	Adult epidermal melanocytes	CC-2586	MGM™ 4 BulletKit™ + ET3 Supplement	CC-3249	CC-3250	CC-4435, CC-4510
D-HEK-Diabetes T2	{Diabetic Type 2} Adult epidermal keratinocytes	CC-2926	KGM™ Gold BulletKit™	192060	192151	192152
D-HMVEC-D-Diab T1	{Diabetic Type 1} Dermal microvascular endothelial cells	CC-2929	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
D-HMVEC-D-Diab T2	{Diabetic Type 2} Dermal microvascular endothelial cells	CC-2930	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147

Diabetic (Type 1 and 2)

D-ADSC-Diab T1	{Diabetic Type 1} Adipose-derived stem cells	PT-5007	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
D-AoSMC-Diab T1	{Diabetic Type 1} Aortic smooth muscle cells	CC-2914	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-HAEC-Diab T1	{Diabetic Type 1} Aortic endothelial cells	CC-2919	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
D-HCAEC-Diab T1	{Diabetic Type 1} Coronary artery endothelial cells	CC-2921	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
D-HMVEC-C-Diab T1	{Diabetic Type 1} Cardiac microvascular endothelial cells	CC-2927	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
D-HMVEC-D-Diab T1	{Diabetic Type 1} Dermal microvascular endothelial cells	CC-2929	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
D-HSMM-Diab T1	{Diabetic Type 1} Muscle myoblasts	CC-2900	SkGM™ 2 BulletKit™	CC-3245	CC-3246	CC-3244
D-HPAEC-Diab T1	{Diabetic Type 1} Pulmonary artery endothelial cells	CC-2923	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
D-PASMC-Diab T1	{Diabetic Type 1} Pulmonary artery smooth muscle cells	CC-2915	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-PrAd-S-Diab T1	{Diabetic Type 1} Subcutaneous preadipocyte cells	PT-5021	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502
D-PrAd-V-Diab T1	{Diabetic Type 1} Visceral preadipocyte cells	PT-5023	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502
D-CASMC-Diab T1	{Diabetic Type 1} Coronary artery smooth muscle cells	CC-2917	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-ADSC-Diab T2	{Diabetic Type 2} Adipose-derived stem cells	PT-5008	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
D-AoSMC-Diab T2	{Diabetic Type 2} Aortic smooth muscle cells	CC-2916	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-HAEC-Diab T2	{Diabetic Type 2} Aortic endothelial cells	CC-2920	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
D-CASMC-Diab T2	{Diabetic Type 2} Coronary artery smooth muscle cells	CC-2918	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-HCAEC-Diab T2	{Diabetic Type 2} Coronary artery endothelial cells	CC-2922	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
D-HMVEC-C-Diab T2	{Diabetic Type 2} Cardiac microvascular endothelial cells	CC-2928	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
D-HMVEC-D-Diab T2	{Diabetic Type 2} Dermal microvascular endothelial cells	CC-2930	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
D-HPAEC-Diab T2	{Diabetic Type 2} Pulmonary artery endothelial cells	CC-2924	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
D-PASMC-Diab T2	{Diabetic Type 2} Pulmonary artery smooth muscle cells	CC-2913	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-HSMM-Diab T2	{Diabetic Type 2} Muscle myoblasts	CC-2901	SkGM™ 2 BulletKit™	CC-3245	CC-3246	CC-3244
D-HEK-Diab T2	{Diabetic Type 2} Adult epidermal keratinocytes	CC-2926	KGM™ Gold BulletKit™	192060	192151	192152
D-RPTEC-Diab T2	{Diabetic Type 2} Renal proximal tube epithelial cells	CC-2925	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
D-PrAd-S-Diab T2	{Diabetic Type 2} Subcutaneous preadipocyte cells	PT-5022	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502
D-PrAd-V-Diab T2	{Diabetic Type 2} Visceral preadipocyte cells	PT-5024	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502

Cell Abbreviation	Description	Cell Cat. No.	Recommended Medium	BulletKit™ Cat. No.	Basal Cat. No.	SingleQuot™ Cat. No.
Endothelial Cells – Normal						
HAEC	Aortic endothelial cells	CC-2535	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
HCAEC	Coronary artery endothelial cells	CC-2585	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HIAEC	Iliac artery endothelial cells	CC-2545	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HPAEC	Pulmonary artery endothelial cells	CC-2530	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
HUVEC*	Umbilical vein endothelial cells	See table below	N/A	N/A	N/A	N/A
HUVEC-XL*	Umbilical vein endothelial cells	191027 See table below	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
HMVEC-C	Cardiac microvascular endothelial cells	CC-7030	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-L	Lung microvascular endothelial cells (blood and lymphatic mix)	CC-2527	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-dAd	Adult dermal microvascular endothelial cells (blood and lymphatic mix)	CC-2543	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-dLyAd	Adult dermal lymphatic microvascular endothelial cells	CC-2810	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-dNeo	Neonatal dermal microvascular endothelial cells (blood and lymphatic mix)	CC-2505	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-dBINEo	Neonatal dermal blood microvascular endothelial cells	CC-2813	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-Bd	Bladder microvascular endothelial cells	CC-7016	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147

Please see section Diabetes Type 1 and 2 for diseased endothelial cells.

*HUVEC Type	Characteristics	Catalog Number
Isolated in EGM™ Media	Isolated in absence of defined growth factors. Contains BBE. No exogenous VEGF	CC-2517 (single donor), CC-2519 (pooled donor)
Isolated in EGM™-Plus Media	Improved version of part number CC-2517. Offers faster proliferation rates than HUVEC isolated in EGM™ Growth Media. No exogenous VEGF	CC-2935 (single donor)
Isolated in EGM™ 2 Media	Isolated in presence of growth factors such as VEGF, rhFGF, rhEGF, and others. Does not contain BBE	C2517A (single donor), C2519A (pooled donor) 00191027 (XL size)
Pre-screened HUVECs in EGM™ 2 Media	Screened for angiogenesis markers and test positive for expression of eNOS, Axl, Tie-2 and VEGFR2	C2517AS (single donor), C2519AS (pooled donor)

Please see section Diabetes Type 1 and 2 for diseased endothelial cells.

Epithelial Cells – Normal and Diseased						
InEpC	Intestinal epithelial cells	CC-2931	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
HMEC	Mammary epithelial cells	CC-2551	MEGM™ BulletKit™	CC-3150	CC-3151	CC-4136
RPE	Retinal pigment epithelial cells	194987	Rt-EGM™ BulletKit™	195409	195406	195407
PrEC	Prostate epithelial cells	CC-2555	PrEGM™ BulletKit™	CC-3166	CC-3165	CC-4177
SAEC	Small airway epithelial cells	CC-2547	SAGM™ BulletKit™	CC-3118	CC-3119	CC-4124
SAEC-ALI	Small airway epithelial cells guaranteed for ALI differentiation	CC-2547S	S-ALI™ BulletKit™	CC-4539	N/A	N/A
NHBE with RA	Bronchial epithelial cells with retinoic acid	CC-2540	BEGM™ BulletKit™	CC-3170	CC-3171	CC-4175
NHBE without RA	Bronchial epithelial cells without retinoic acid	CC-2541	BEGM™ BulletKit™	CC-3170	CC-3171	CC-4175
NHBE-ALI	Bronchial epithelial cells guaranteed for ALI differentiation	CC-2540S	B-ALI™ BulletKit™	193514	N/A	N/A
HRCE	Cortical epithelial cells	CC-2554	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
HRE	Renal epithelial cells	CC-2556	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
RPTEC	Renal proximal tube epithelial cells	CC-0168	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
DHBE-As	(Asthma) Bronchial epithelial cells	194911	BEGM™ BulletKit™	CC-3170	CC-3171	CC-4175
DHBE-As-ALI	(Asthma) Bronchial epithelial cells guaranteed for ALI differentiation	194911S	B-ALI™ BulletKit™	193514	N/A	N/A

Cell Abbreviation	Description	Cell Cat. No.	Recommended Medium	BulletKit™ Cat. No.	Basal Cat. No.	SingleQuot™ Cat. No.
D-SAEC-As	(Asthma) Small airway epithelial cells	CC-2932	SAGM™ BulletKit™	CC-3118	CC-3119	CC-4124
DHBE-COPD	(COPD) Bronchial epithelial cells	195275	BEGM™ BulletKit™	CC-3170	CC-3171	CC-4175
DHBE-COPD-ALI	(COPD) Bronchial epithelial cells guaranteed for ALI differentiation	195275S	B-ALI™ BulletKit™	193514	N/A	N/A
D-SAEC-COPD	(COPD) Small airway epithelial cells	CC-2934	SAGM™ BulletKit™	CC-3118	CC-3119	CC-4124
DHBE-CF	(Cystic Fibrosis) Bronchial epithelial cells	196979	BEGM™ BulletKit™	CC-3170	CC-3171	CC-4175
D-SAEC-CF	(Cystic Fibrosis) Small airway epithelial cells	CC-2933	SAGM™ BulletKit™	CC-3118	CC-3119	CC-4124
D-RPTEC-Diab T2	(Diabetic Type 2) Renal proximal tube epithelial cells	CC-2925	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127

Fibroblasts – Normal and Diseased

AoAF	Aortic adventitial fibroblasts	CC-7014	SCGM™ BulletKit™	CC-3205	CC-3204	CC-4181
NHCF-A	Atrial cardiac fibroblasts	CC-2903	FGM™ 3 BulletKit™	CC-4526	CC-3131	CC-4525
NHCF-V	Ventricle cardiac fibroblasts	CC-2904	FGM™ 3 BulletKit™	CC-4526	CC-3131	CC-4525
NHDF-Ad	Adult dermal fibroblasts	CC-2511	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
NHDF-Neo	Neonatal dermal fibroblasts	CC-2509	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
InMyoFib	Intestinal Myofibroblasts	CC-2902	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
NHLF	Lung fibroblasts	CC-2512	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
HPdLF	Peridontal ligament fibroblasts	CC-7049	SCGM™ BulletKit™	CC-3205	CC-3204	CC-4181
DHLF-As	(Asthma) Lung fibroblasts	194912	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
DHLF-COPD	(COPD) Lung fibroblasts	195277	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
DHLF-CF	(Cystic Fibrosis) Lung fibroblasts	194843	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
DHLF-IPL	(Idiopathic Lung Fibrosis) Lung fibroblasts	CC-7231	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126

Neural Cells – Normal

NHA	Astrocytes	CC-2565	AGM™ BulletKit™	CC-3186	CC-3187	CC-4123
NHNP	Neural progenitors	PT-2599	NPMM™ BulletKit™, NPDM™ BulletKit™	CC-3209, CC-3229	CC-3210	CC-4241, CC-4242

Pancreatic Islets

Available through CellBio Service

Progenitor Cells – Normal

OCP	Osteoclast precursors	2T-110	OCP™ BulletKit™	PT-8001	PT-8201	PT-9501
NHNP	Neural progenitors	PT-2599	NPMM™ BulletKit™, NPDM™ BulletKit™	CC-3209, CC-3229	CC-3210	CC-4241, CC-4242
CD34 ⁺	Bone marrow CD34 ⁺ progenitor cells (fresh)	1M-101	HPGM™ BulletKit™	PT-3926	N/A	N/A
CD34 ⁺	Bone marrow CD34 ⁺ progenitor cells (cryopreserved)	2M-101	HPGM™ BulletKit™	PT-3926	N/A	N/A
CD34 ⁺	Human cord blood CD34 ⁺ progenitor cells (cryopreserved)	2C-101	HPGM™ BulletKit™	PT-3926	N/A	N/A
Pr-Ad-S	Preadipocytes - subcutaneous	PT-5001, PT-5020	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502
Pr-Ad-V	Preadipocytes - visceral	PT-5005	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502

Prostate Cells – Normal

PrEC	Prostate epithelial	CC-2555	PrEGM™ BulletKit™	CC-3166	CC-3165	CC-4177
PrSC	Prostate stromal	CC-2508	SCGM™ BulletKit™	CC-3205	CC-3204	CC-4181
PrSMC	Prostate smooth muscle	CC-2587	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149

Cell Abbreviation	Description	Cell Cat. No.	Recommended Medium	BulletKit™ Cat. No.	Basal Cat. No.	SingleQuot™ Cat. No.
Renal Cells – Normal and Diseased						
HRCE	Cortical epithelial cells	CC-2554	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
HRE	Renal epithelial cells	CC-2556	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
RPTEC	Renal proximal tube epithelial cells	CC-2553	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
D-RPTEC-Diab T2	(Diabetic Type 2) Renal proximal tube epithelial cells	CC-2925	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127

Skeletal and Skeletal Muscle Cells – Normal and Diseased						
NH0st	Osteoblasts	CC-2538	OGM™ BulletKit™	CC-3207	CC-3208	CC-4193, CC-4194
NHAC-kn	Articular chondrocytes, knee	CC-2550	CDM™ BulletKit™, CGM™ BulletKit™	CC-3225, CC-3216	CC-3226, CC-3217	CC-4408, CC-4409
HPdLF	Peridontal ligament fibroblasts	CC-7049	SCGM™ BulletKit™	CC-3205	CC-3204	CC-4181
HSMM	Skeletal muscle myoblasts	CC-2580	SkGM™ 2 BulletKit™	CC-3245	CC-3246	CC-3244
SkMC	Skeletal muscle cells	CC-2561	SkGM™ BulletKit™	CC-3160	CC-3161	CC-4139
D-HSMM-Diab T1	(Diabetic Type 1) Muscle myoblasts	CC-2900	SkGM™ 2 BulletKit™	CC-3245	CC-3246	CC-3244
D-HSMM-Diab T2	(Diabetic Type 2) Muscle myoblasts	CC-2901	SkGM™ 2 BulletKit™	CC-3245	CC-3246	CC-3244
OCP	Osteoclast precursors	2T-110	OCP™ BulletKit™	PT-8001	PT-8201	PT-9501

Smooth Muscle Cells – Normal and Diseased						
AoSMC	Aortic smooth muscle cells	CC-2571	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
CASMC	Coronary artery smooth muscle cells	CC-2583	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
PrSMC	Prostate smooth muscle cells	CC-2587	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
BSMC	Bronchial smooth muscle cells	CC-2576	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
PASMC	Pulmonary artery smooth muscle cells	CC-2581	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
UASMC	Umbilical artery smooth muscle cells	CC-2579	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
BdSMC	Bladder smooth muscle cells	CC-2533	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
DBSMC-As	(Asthma) Bronchial smooth muscle cells	194850	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
DBSMC-COPD	(COPD) Bronchial smooth muscle cells	195274	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
DBSMC-CF	(Cystic Fibrosis) Bronchial smooth muscle cells	196980	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-PASMC-Diab T1	(Diabetic Type 1) Pulmonary artery smooth muscle cells	CC-2915	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-AoSMC-Diab T1	(Diabetic Type 1) Aortic smooth muscle cells	CC-2914	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-CASMC-Diab T1	(Diabetic Type 1) Coronary artery smooth muscle cells	CC-2917	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-PASMC-Diab T2	(Diabetic Type 2) Pulmonary artery smooth muscle cells	CC-2913	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-AoSMC-Diab T2	(Diabetic Type 2) Aortic smooth muscle cells	CC-2916	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-CASMC-Diab T2	(Diabetic Type 2) Coronary artery smooth muscle cells	CC-2918	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149

Stem Cells – Normal						
ADSC	Adipose-derived stem cells	PT-5006	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
DPSC	Dental pulp stem cells	PT-5025	DPSC™ BulletKit™	PT-3005	PT-3927	PT-4516
MSC	Mesenchymal stem cells	PT-2501	MSCGM™ Growth BulletKit™, MSC Osteogenic BulletKit™, MSC Chondrogenic BulletKit™, MSC Adipogenic BulletKit™	PT-3001 PT-3002 PT-3003 PT-3004	PT-3238	PT-4105

Cryopreserved Animal Primary Cells

Cell Abbreviation	Description	Cell Cat. No.	Recommended Medium	BulletKit™ Cat. No.	Basal Cat. No.	SingleQuot™ Cat. No.
Cardiac Cells						
R-CM	Rat cardiac myocytes	R-CM-561	RCGM™ BulletKit™	CC-4515	CC-3275	CC-4516
R-ASM	Rat aortic smooth muscle cells	R-ASM-580	DMEM:F12 + supplements	N/A	N/A	N/A
Neural Cells						
R-Cx	Rat Brain cortex neurons	R-Cx-500	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
R-Hi	Rat brain hippocampus neurons	R-Hi-501	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
R-Cp	Rat brain striatum neurons	R-Cp-502	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
R-Drg	Rat dorsal root ganglion neurons	R-Drg-505	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
R-eDrg	Embryonic rat dorsal root ganglion neurons	R-eDrg-515	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
R-Cb	Rat cerebellar neurons	R-Cb-503	PNGM™-A BulletKit™	CC-4512	CC-3256	CC-4511, CC-4462
R-HTh	rat brain hypothalamic neurons	R-HTh-507	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
R-CxAs	Rat brain cortex astrocytes	R-CxAs-520	AGM™ BulletKit™	CC-3186	CC-3187	CC-4123
R-HiAs	Rat brain hippocampus astrocytes	R-HiAs-521	AGM™ BulletKit™	CC-3186	CC-3187	CC-4123
R-CpAs	Rat brain striatum astrocytes	R-CpAs-522	AGM™ BulletKit™	CC-3186	CC-3187	CC-4123
R-AsM	Rat brain Cx-Hi-Cp mix astrocytes	R-AsM-530	AGM™ BulletKit™	CC-3186	CC-3187	CC-4123
R-G	Rat Microglial Cells	R-G-535	N/A	N/A	N/A	N/A
M-Cx	Mouse CD1 brain cortex neurons	M-Cx-400	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
M-Cp	Mouse CD1 brain striatum neurons	M-Cp-402	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
M-Cx	Mouse C57 brain cortex neurons	M-Cx-300	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
M-Cp	Mouse C57 brain striatum neurons	M-Cp-302	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
M-AsM	Mouse CD1 brain mixed astrocytes	M-AsM-430	AGM™ BulletKit™	CC-3186	CC-3187	CC-4123
M-AsM	Mouse CD57 brain mixed astrocytes	M-AsM-330	AGM™ BulletKit™	CC-3186	CC-3187	CC-4123
M-Hi	Mouse brain hippocampus neurons	M-Hi-401	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
Other Cell Types						
R-Ret	Rat retinal cells	R-Ret-508	PNGM™ BulletKit™	CC-4461	CC-3256	CC-4462
R-OST	Rat calvariae osteoblasts	R-Ost-583	N/A	N/A	N/A	N/A
MEF	Mouse embryonic fibroblasts	M-Fb-481	DMEM high glucose containing 10% FBS	N/A	N/A	N/A
iMEF	Irradiated mouse embryonic fibroblasts	M-iFb-482	DMEM high glucose with L-Gln containing 10% FBS	N/A	N/A	N/A

Cryopreserved Hepatocytes

Cell Type	Format	Cell Cat. No.	Thawing media	Plating Media	Maintenance Media
Human Hepatocytes – Plateable					
Human Hepatocytes, General Purpose	Cryopreserved, plateable	HUCPG	MCHT50	MP100	CC-3198
Human Hepatocytes, Interaction Qualified	Cryopreserved, plateable	HUCPI	MCHT50	MP100	CC-3198
Human Hepatocytes – Suspension					
DonorPlex™ Human Hepatocytes, 10 donor pool	Cryopreserved, pooled suspension	HUCS10P	MCHT50	N/A	CC-3198
DonorPlex™ Human Hepatocytes, 20 donor pool	Cryopreserved, pooled suspension	HUCS20P	MCHT50	N/A	CC-3198
DonorPlex™ Human Hepatocytes 50 donor pool	Cryopreserved, pooled suspension	HUCS50P	MCHT50	N/A	CC-3198
Human Hepatocytes	Cryopreserved, single donor suspension	HUCSD	MCHT50	N/A	CC-3198
Animal Hepatocytes – Plateable					
Dog (Beagle) Hepatocytes	Cryopreserved, plateable	DBCP01	MCAT50	MP100	CC-3198
Monkey (Cynomolgus) Hepatocytes	Cryopreserved, plateable	CYCP01	MCAT50	MP100	CC-3198
Mouse (C57Bl/6) Hepatocytes	Cryopreserved, plateable	MBCP01	MCRT50	MP100	MM250
Mouse (CD-1) Hepatocytes	Cryopreserved, plateable	MCCP01	MCRT50	MP100	CC-3198
Rat (Fisher) Hepatocytes	Cryopreserved, plateable	RFCP01	MCRT50	MP100	CC-3198
Rat (Sprague Dawley) Hepatocytes	Cryopreserved, plateable	RSCP01	MCRT50	MP100	CC-3198
Rat (Wistar Han) Hepatocytes	Cryopreserved, plateable	RWCP01	MCRT50	MP100	CC-3198
Rat (Wistar) Hepatocytes	Cryopreserved, plateable	RICP01	MCRT50	MP100	CC-3198
Animal Hepatocytes – Suspension					
Dog (Beagle) Hepatocytes	Cryopreserved, suspension	DBCS01	MCAT50	N/A	CC-3198
Monkey (Cynomolgus) Hepatocytes	Cryopreserved, suspension	CYCS01	MCAT50	N/A	CC-3198
Mouse (C57Bl/6) Hepatocytes	Cryopreserved, suspension	MBCS01	MCRT50	N/A	MM250
Mouse (CD-1) Hepatocytes	Cryopreserved, suspension	MCCS01	MCRT50	N/A	MM250
Rat (Fisher) Hepatocytes	Cryopreserved, suspension	RFCS01	MCRT50	N/A	CC-3198
Rat (Sprague Dawley) Hepatocytes	Cryopreserved, suspension	RSCS01	MCRT50	N/A	CC-3198
Rat (Wistar Han) Hepatocytes	Cryopreserved, suspension	RWCS01	MCRT50	N/A	CC-3198
Rat (Wistar) Hepatocytes	Cryopreserved, suspension	RICS01	MCRT50	N/A	CC-3198

Cell Type	Format	Cell Cat. No.	Thawing media	Plating Media	Maintenance Media
Cryopreserved Human Liver Non-Parenchymal Cells					
Human Kupffer Cells	Cryopreserved	HLKC	N/A	N/A	N/A
Human Stellate Cells	Cryopreserved	HUCLS	N/A	N/A	MCST250
Human Liver Non-Parenchymal Cells	Cryopreserved	HUCNP	N/A	MP100	MP100
Human Liver endothelial cells	Cryopreserved	HLECP2	N/A	N/A	EGM™ 2 BulletKit™

Fresh Human and Animal Primary Cells

These are available upon request. Contact our Scientific Support Team for additional details. See contact information on back cover.

Hematopoietic and Immune Cells

Cell Type	Cat. No.	Description	Size	Recommended Media
B Cells				
B Cells - Fresh				
CD19+ B Cells	3W-600	Human CD19+ B cells, isolated from peripheral blood using positive immunomagnetic selection, fresh	≥ 10 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
CD19+ B Cells	3W-601	Human CD19+ B cells, isolated from peripheral blood using negative immunomagnetic selection, fresh	≥ 10 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
CD19+/IgD+ Naive B Cells	3W-602	Human Naïve CD19+/IgD+ B cells, isolated from peripheral blood using negative immunomagnetic selection, fresh	≥ 1 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
B Cells - Cryopreserved				
CD19+ B Cells (positively selected)	4W-600	Human CD19+ B cells isolated from peripheral blood using positive immunomagnetic selection, cryopreserved	≥ 10 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
CD19+ B Cells (Negatively selected)	4W-601	Human CD19+ B cells isolated from peripheral blood using negative immunomagnetic selection, cryopreserved,	≥ 10 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
CD19+/IgD+ Naive B Cells	4W-602	Human CD19+/IgD+ B cells isolated from peripheral blood using negative immunomagnetic selection, cryopreserved,	≥ 1 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
CD14+ Monocytes				
Mobilized - Cryopreserved				
CD14+ Monocytes, (positively selected)	4Y-125	Human CD14+ monocytes, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥ 25 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530, 04-4480, BE04-4480
CD14+ Monocytes, (positively selected)	4Y-125A	Human CD14+ monocytes, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥ 10 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530, 04-4480, BE04-4480
Peripheral Blood - Cryopreserved				
CD14+ Cells (positively selected)	2W-400A	Peripheral Blood CD14+ Monocytes, positively selected	≥ 40 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
CD14+ Cells (positively selected)	2W-400B	Peripheral Blood CD14+ Monocytes, positively selected	≥ 20 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
CD14+ Cells (positively selected)	2W-400C	Peripheral Blood CD14+ Monocytes, positively selected	≥ 10 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
CD14+ Monocytes, (negatively selected)	4W-400	Human CD14+ monocytes, isolated from peripheral blood using negative immunomagnetic selection	≥ 10 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530, 04-4480, BE04-4480
CD14+ Monocytes, (negatively selected)	4W-400A	Human CD14+ monocytes, isolated from peripheral blood using negative immunomagnetic selection	≥ 50 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530, 04-4480, BE04-4480

Recommended media depends on experimental setup. Please visit our eShop or contact Scientific Support for more information.

Cell Type	Cat. No.	Description	Size	Recommended Media
Peripheral Blood - Fresh				
CD14+ Monocytes, (negatively selection)	3W-400	Human CD14+ monocytes, isolated from peripheral blood using negative immunomagnetic selection	≥10 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530, 04-4480, BE04-4480
CD14+ Monocytes, (negatively selected)	3W-400A	Human CD14+ monocytes, isolated from peripheral blood using negative immunomagnetic selection	≥50 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530, 04-4480, BE04-4480
CD34+ Stem/Progenitor Cells				
Bone Marrow - Cryopreserved				
Bone Marrow and Cord Blood	2M-101	Bone Marrow CD34+ Progenitor Cells	≥100,000 cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
Bone Marrow and Cord Blood	2M-101A	Bone Marrow CD34+ Progenitor Cells	≥300,000 cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
Bone Marrow and Cord Blood	2M-101B	Bone Marrow CD34+ Progenitor Cells	≥500,000 cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
Bone Marrow and Cord Blood	2M-101C	Bone Marrow CD34+ Progenitor Cells	≥1 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
Bone Marrow and Cord Blood	2M-101D	Bone Marrow CD34+ Progenitor Cells	≥2 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
Cord Blood - Cryopreserved				
Bone Marrow and Cord Blood	2C-101	Cord Blood CD34+ Progenitor Cells	≥1 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
Bone Marrow and Cord Blood	2C-101A	Cord Blood CD34+ Progenitor Cells	≥500 000 cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
Mobilized - Fresh				
CD34+ Stem/Progenitor Cells, (positively selected)	3Y-101C	Human CD34+ cells, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥1 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530
CD34+ Stem/Progenitor Cells, (positively selected)	3Y-101D	Human CD34+ cells, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥5 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530
CD34+ Stem/Progenitor Cells, (positively selected)	3Y-101E	Human CD34+ cells, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥10 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530
CD34+ Stem/Progenitor Cells, (positively selected)	3Y-101F	Human CD34+ cells, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥25 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530
Mobilized - Cryopreserved				
CD34+ Stem/Progenitor Cells, (positively selected)	4Y-101C	Human CD34+ cells, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥1 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530
CD34+ Stem/Progenitor Cells, (positively selected)	4Y-101D	Human CD34+ cells, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥5 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530
CD34+ Stem/Progenitor Cells, (positively selected)	4Y-101E	Human CD34+ cells, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥10 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530
CD34+ Stem/Progenitor Cells, (positively selected)	4Y-101F	Human CD34+ cells, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥25 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530
Dendritic Cells				
NHDC Dendritic Cells	CC-2701	Normal Human Dendritic Cells, cryopreserved	≥2.5 million cells	04-4480, BE04-4480
Eosinophils				
Peripheral Blood - Fresh				
Peripheral Blood, Fresh, CD15+/CD16- Eosinophils, Negatively Selected, 1M	3W-520	Human CD16-/CD66b+ eosinophils, isolated from peripheral blood using negative immunomagnetic selection, ≥ 1 million cells, fresh	≥1 million cells	04-4480, BE04-4480
Peripheral Blood - Cryopreserved				
CD16-/CD66b+ (negatively selected)	4W-520	Human CD16-/CD66b+ eosinophils, isolated from peripheral blood using negative immunomagnetic selection	≥1 million cells	04-4480, BE04-4480
Erythrocytes				
Peripheral Blood - Fresh				
Myeloid Cells - Mature Erythrocytes	3W-800	Human mature erythrocytes from peripheral blood (RBC)	≥50 billion cells	N/A

Recommended media depends on experimental setup. Please visit our eShop or contact Scientific Support for more information.

Cell Type	Cat. No.	Description	Size	Recommended Media
Mononuclear Cells				
Bone Marrow - Cryopreserved				
Bone Marrow MNCs	2M-125B	Bone Marrow Mononuclear Cells, 5 amps	5 x ≥25 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
Bone Marrow MNCs	2M-125C	Bone Marrow Mononuclear Cells	≥25 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
Bone Marrow MNCs	2M-125E	Bone Marrow Mononuclear Cells	≥300 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
Human Bone Marrow	2S-101D	Bone Marrow Mononuclear Cells	≥5 million cells	04-3800, BE04-3800, 04-4180, BE02-060F, BE02-0600, BE02-0530
Bone Marrow, CD34-Depleted, MNC	4M-105	Bone Marrow, CD34-Depleted mononuclear cells	≥100 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530
Bone Marrow, MNCs	4M-125A	Mononuclear cells from human bone marrow	≥10 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530, 04-4480, BE04-4480
Bone Marrow - Fresh				
Bone Marrow, Fresh, Mononuclear Cells	3M-270	Mononuclear cells from human bone marrow	≥25 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530, 04-4480, BE04-4480
Bone Marrow, Fresh, CD34-Depleted MNC	3M-601	Human bone marrow, mononuclear cells depleted of CD34+ Stem/Progenitor Cells	≥100 million cells	04-4180, BE02-060F, BE02-0600, BE02-0530, 04-4480, BE04-4480
Peripheral Blood - Fresh				
Human PBMCs	3W-270	Mononuclear cells from human peripheral blood, 100 million cells	≥100 million cells	04-4480, BE04-4480
Human PBMCs	3W-270A	Mononuclear cells from human peripheral blood 300 million cells	≥300 million cells	04-4480, BE04-4480
Peripheral Blood - Cryopreserved				
Human PBMCs	4W-270	Mononuclear cells from human peripheral blood	≥10 million cells	04-4480, BE04-4480
Human PBMCs	4W-270A	Mononuclear cells from human peripheral blood	≥25 million cells	04-4480, BE04-4480
Human PBMCs	4W-270C	Mononuclear cells from human peripheral blood	≥100 million cells	04-4480, BE04-4480
Human PBMCs	CC-2702	Mononuclear cells from human peripheral blood	≥50 million cells	04-4480, BE04-4480
NK Cells				
Cord Blood - Cryopreserved				
CD56+ Natural Killer (NK) Cells, Positively Selected	4C-502	Cord Blood, CD56+ Natural Killer (NK) Cells, Positively Selected	≥1 million cells	04-4480, BE04-4480
Peripheral Blood - Cryopreserved				
Peripheral Blood NK Cells Negative, 5M	2W-501	Peripheral Blood Natural Killer Cells, negatively selected, cryopreserved, 5M cells	≥5 million cells	04-4480, BE04-4480
Peripheral Blood NK Cells Positive, 5 M	2W-502	Peripheral Blood Natural Killer Cells, positively selected, cryopreserved, 5M cells	≥5 million cells	04-4480, BE04-4480
Peripheral Blood - Fresh				
CD56+ Natural Killer (NK) Cells, (negatively selected)	3W-501	Human CD56+ Natural Killer (NK) Cells isolated from peripheral blood using negative immunomagnetic selection	≥5 million cells	04-4480, BE04-4480
CD56+ Natural Killer (NK) Cells, (positively selected)	3W-502	Human CD56+ Natural Killer (NK) Cells isolated from peripheral blood using positive immunomagnetic selection	≥5 million cells	04-4480, BE04-4480
Osteoclast Precursors				
Osteoclast Precursors	2T-110	Osteoclast Precursors, cryopreserved	≥1 million cells	PT-8001
Platelets				
Peripheral Blood - Fresh				
Myeloid Cells - Platelets	3W-805	Human platelets isolated from peripheral blood	≥5 billion cells	N/A

Recommended media depends on experimental setup. Please visit our eShop or contact Scientific Support for more information.

Cell Type	Cat. No.	Description	Size	Recommended Media
T Cells				
Peripheral Blood - Cryopreserved				
CD4+ T Cells, (negatively selected)	2W-200	Peripheral Blood CD4+ Helper T Cells, negatively selected	≥10 million cells	04-4480, BE04-4480
CD8+ T Cells, (negatively selected)	2W-300	Peripheral Blood CD8+ Cytotoxic T Cells, negatively selected	≥10 million cells	04-4480, BE04-4480
Peripheral Blood - Fresh				
CD4+ Helper T Cells, (negatively selected)	3W-200	Human CD4+ T helper cells, isolated from peripheral blood using negative immunomagnetic selection	≥25 million cells	04-4480, BE04-4480
CD4+/CD45RA+ Naive Helper T Cells, (negatively selected)	3W-202	Human CD4+/CD45RA+ Naive T cells, isolated from peripheral blood using negative immunomagnetic selection	≥5 million cells	04-4480, BE04-4480
CD4+/CD25+ T Cells, (negatively/positively selected)	3W-203	Human CD4+/CD25+ T cells, isolated from peripheral blood using a combination of negative and positive immunomagnetic selection	≥1 million cells	04-4480, BE04-4480
CD4+/CD45RO+ Memory T Cells, (negatively selected)	3W-204	Human CD4+/CD45RA+ memory T cells, isolated from peripheral blood using negative immunomagnetic selection	≥5 million cells	04-4480, BE04-4480
CD8+ Cytotoxic T Cells, (negatively selected)	3W-300	Human CD8+ cytotoxic T cells, isolated from peripheral blood using negative immunomagnetic selection	≥10 million cells	04-4480, BE04-4480
CD8+/CD45RA+ Naive Cytotoxic T Cells, (negatively selected)	3W-302	Human CD8+/CD45RA+ naive cytotoxic T cells, isolated from peripheral blood using negative immunomagnetic selection	≥5 million cells	04-4480, BE04-4480
CD3+ Pan T Cells, (negatively selected)	3W-350	Human CD3+ T cells, isolated from peripheral blood using negative immunomagnetic selection	≥25 million cells	04-4480, BE04-4480
Peripheral Blood - Cryopreserved				
CD4+/CD45RA+ Naive T Cells, (negatively selected)	4W-202	Human CD4+/CD45RA+ Naive T cells, isolated from peripheral blood using negative immunomagnetic selection	≥5 million cells	04-4480, BE04-4480
CD4+/CD25+ T Cells, (negatively/positively selected)	4W-203	Human CD4+/CD25+ T cells, isolated from peripheral blood using a combination of negative and positive immunomagnetic	≥1 million cells	04-4480, BE04-4480
CD4+/CD45RO+ Memory T Cells, (negatively selected)	4W-204	Human CD4+/CD45RA+ memory T cells, isolated from peripheral blood using negative immunomagnetic selection	≥5 million cells	04-4480, BE04-4480
CD8+/CD45RA+ Naive Cytotoxic T Cells, (negatively selected)	4W-302	Human CD8+/CD45RA+ naive cytotoxic T cells, isolated from peripheral blood using negative immunomagnetic selection	≥5 million cells	04-4480, BE04-4480
CD3+ Pan T Cells, (negatively selected)	4W-350	Human CD3+ T cells, isolated from peripheral blood using negative immunomagnetic selection	≥25 million cells	04-4480, BE04-4480
Whole Tissue				
Bone Marrow - Fresh				
Human Bone Marrow	1M-105	Whole Bone Marrow	10 mL	04-4180, BE02-060F, BE02-0600, BE02-0530, 04-4480, BE04-4480
Human Bone Marrow	1M-125	Whole Bone Marrow	25 mL	04-4180, BE02-060F, BE02-0600, BE02-0530, 04-4480, BE04-4480
Human Bone Marrow	3M-103	Whole Bone Marrow	3 mL	04-3800, BE04-3800
Human Bone Marrow	3M-103C	Whole Bone Marrow	50 mL	04-3800, BE04-3800
Human Bone Marrow	3M-103D	Whole Bone Marrow	100 mL	04-3800, BE04-3800
Bone Marrow - Frozen				
Bone Marrow Plasma	3M-135	Human plasma from bone marrow	1 mL	
Mobilized Blood - Fresh				
Mobilized Leuko Pak, RegF	3Y-300	Human leukopheresis product collected from peripheral blood mobilized with Neupogen® 10 ug/kg x 5, Day 5 Collection	1 Bag	04-4480, BE04-4480
Mobilized Leuko Pak, RegH	3Y-300A	Human leukopheresis product collected from peripheral blood mobilized with Neupogen® 10 ug/kg x 5, Mozobil® 240 ug/kg x 2, Day 5 Collection	1 Bag	04-4480, BE04-4480
Mobilized Leuko Pak, RegF	3Y-300B	Human leukopheresis product collected from peripheral blood mobilized with Neupogen® 10 mcg/kg/day x 5 days, Second Collection, Day 6 Collection	1 Bag	04-4480, BE04-4480
Mobilized Leuko Pak, RegH	3Y-300D	Human leukopheresis product collected from peripheral blood mobilized with Neupogen® 10 ug/kg x 5, Mozobil 240 ug/kg x 2, Day 6 Collection	1 Bag	04-4480, BE04-4480
Mobilized Leuko Pak, MozA	3Y-300E	Human leukopheresis product collected from peripheral blood mobilized with Mozobil® 20 mg/mL, 1.2 mL Single Dose	1 Bag	04-4480, BE04-4480

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Cell Type	Cat. No.	Description	Size	Recommended Media
Peripheral Blood - Fresh				
Leuko Pak	3P-100	Human leukopheresis product collected from normal peripheral blood	Full bag	04-4480, BE04-4480
Leuko Pak	3P-100B	Human leukopheresis product collected from normal peripheral blood	Quarter bag	04-4480, BE04-4480
Leuko Pak	3P-100C	Human leukopheresis product collected from normal peripheral blood	Half bag	04-4480, BE04-4480
Leuko Pak	3P-105	Human leukopheresis product collected from normal peripheral blood	≥10 billion cells	04-4480, BE04-4480
Leuko Pak	3P-105A	Human leukopheresis product collected from normal peripheral blood	≥2.5 billion cells	04-4480, BE04-4480
Leuko Pak	3P-105B	Human leukopheresis product collected from normal peripheral blood	≥5 billion cells	04-4480, BE04-4480
Peripheral Blood	3W-810	Human plasma from peripheral blood	10 mL	
Peripheral Blood - Frozen				
Peripheral Blood	4W-820	Human serum isolated from peripheral blood	5 mL	
Peripheral Blood	3W-810F	Human plasma from peripheral blood	10 mL	
Whole Blood - Frozen				
Whole, Frozen, Plasma	3W-811	Human plasma from whole blood, frozen, 5 mL	5 mL	
Whole Blood - Fresh				
Whole Blood	3W-901	Whole Blood, 54 mL, collected in a 60 mL syringe pre-loaded with 6mL of ACD-A	60 mL	04-4480, BE04-4480
Whole Blood	3W-902	Whole Blood, 48 mL, collected in a 60 mL syringe pre-loaded with 12mL of Sodium (Na) Citrate	60 mL	04-4480, BE04-4480
Whole Blood	3W-903	Whole Blood, 57 mL, collected in a 60 mL syringe pre-loaded with 3mL of Sodium (Na) Heparin	60 mL	04-4480, BE04-4480
Whole Blood	3W-904	Whole Blood, 162 mL in transfer bag pre-loaded with 18 mL ACD-A	180 mL	04-4480, BE04-4480
Whole Blood	3W-905	Whole Blood, Fresh, Transfer Bag, ACD:A	240 mL	04-4480, BE04-4480
Whole Blood	3W-906	Whole Blood, Fresh, 270 mL in transfer bag pre-loaded with 30 mL ACD-A	300 mL	04-4480, BE04-4480
Whole Blood	3W-907	Whole Blood, 324 mL in transfer bag pre-loaded with 36 mL ACD-A	360 mL	04-4480, BE04-4480
Whole Blood	3W-908	Whole Blood, 378 mL in transfer bag pre-loaded with 42 mL ACD-A	420 mL	04-4480, BE04-4480
Whole Blood	3W-909	Whole Blood, 144 mL in transfer bag pre-loaded with 36 mL Sodium (Na) Citrate	80 mL	04-4480, BE04-4480
Whole Blood	3W-910	Whole Blood, 192 mL in transfer bag pre-loaded with 48 mL Sodium (Na) Citrate	240 mL	04-4480, BE04-4480
Whole Blood	3W-911	Whole Blood, 240 mL in transfer bag pre-loaded with 60 mL Sodium (Na) Citrate	300 mL	04-4480, BE04-4480
Whole Blood	3W-912	Whole Blood, 288 mL in transfer bag pre-loaded with 72 mL Sodium (Na) Citrate	360 mL	04-4480, BE04-4480
Whole Blood	3W-913	Whole Blood, 336 mL in transfer bag pre-loaded with 84 mL Sodium (Na) Citrate	420 mL	04-4480, BE04-4480
Whole Blood	3W-914	Whole Blood, 171 mL in transfer bag pre-loaded with 9 mL Sodium (Na) Heparin	180 mL	04-4480, BE04-4480
Whole Blood	3W-915	Whole Blood, 228 mL in transfer bag pre-loaded with 12 mL Sodium (Na) Heparin	240 mL	04-4480, BE04-4480
Whole Blood	3W-916	Whole Blood, 285 mL in transfer bag pre-loaded with 15 mL Sodium (Na) Heparin	300 mL	04-4480, BE04-4480
Whole Blood	3W-917	Whole Blood, 342 mL in transfer bag pre-loaded with 18 mL Sodium (Na) Heparin	360 mL	04-4480, BE04-4480
Whole Blood	3W-918	Whole Blood, 399 mL in transfer bag pre-loaded with 21 mL Sodium (Na) Heparin	420 mL	04-4480, BE04-4480
Whole Blood	3W-919	Whole Blood, ACD-A Vacutainer	8.5 mL	04-4480, BE04-4480
Whole Blood	3W-920	Whole Blood, Sodium (Na) Citrate Vacutainer	4.5 mL	04-4480, BE04-4480
Whole Blood	3W-923	Whole Blood, Sodium (Na) Heparin Vacutainer	10 mL	04-4480, BE04-4480
Whole Blood	3W-924	Whole Blood, Serum-separating Tube Vacutainer	8.5 mL	04-4480, BE04-4480

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Contact us

North America

Customer Service: +1 800 638 8174 (toll free)
order.us@lonza.com

Scientific Support: +1 800 521 0390 (toll free)
scientific.support@lonza.com

Europe

Customer Service: +32 87 321 611
order.europe@lonza.com

Scientific Support: +32 87 321 611
scientific.support.eu@lonza.com

International

Contact your local Lonza distributor
Customer Service: +1 301 898 7025
scientific.support@lonza.com

International Offices

Australia	+ 61 3 9550 0883
Belgium	+ 32 87 321 611
Brazil	+ 55 11 2069 8800
France	0800 91 19 81 (toll free)
Germany	0800 182 52 87 (toll free)
India	+ 91 22 4342 4000
Japan	+ 81 3 6264 0660
Luxemburg	+ 32 87 321 611
Singapore	+ 65 6521 4379
The Netherlands	0800 022 4525 (toll free)
United Kingdom	0808 234 97 88 (toll free)

Lonza Walkersville, Inc.
Walkersville, MD 21793

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CD-LI015 12/19



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