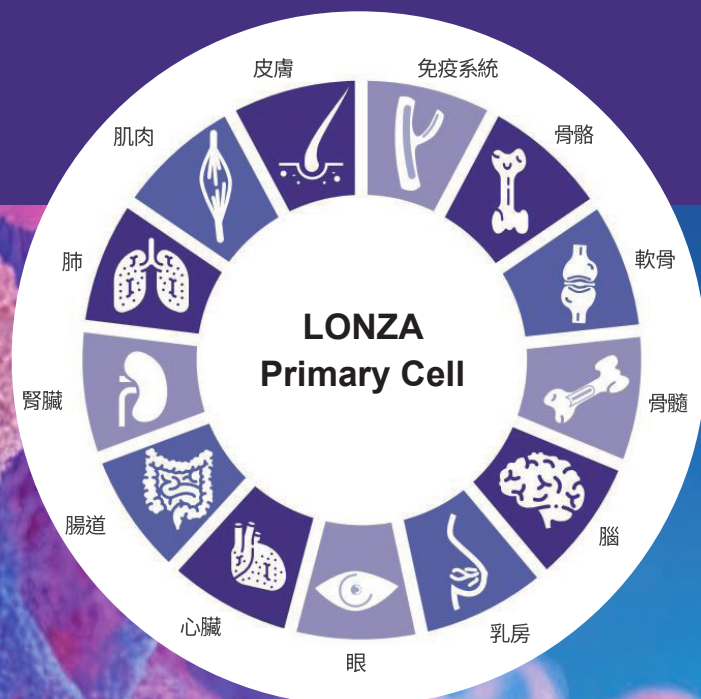


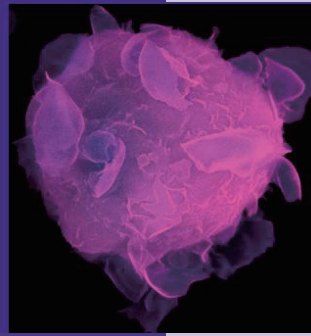
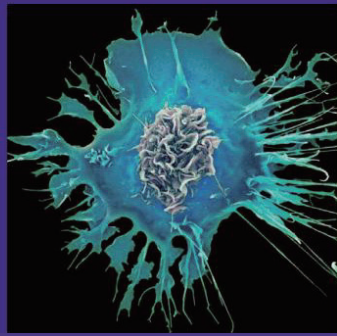
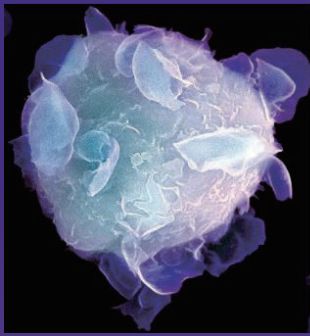
Lonza

Cell & Gene

原代細胞產品目錄

**LONZA handles the cell isolation,
you focus on the research**





Demonstrating *in vitro* results with *in vivo* relevance

Lonza 作為原代細胞培養領域的開拓者，30 多年來始終致力於提供高品質的原代細胞和相關培養基產品。原代細胞是指自生物體器官分離後僅繼代培養 0 ~ 3 代的細胞，仍保留各器官來源細胞的大部分特性與功能。

體外原代細胞模型可重現生物功能，原代細胞具有細胞株無法取得的原始功能，適用於各類研究。

人類
免疫細胞

人類
原代細胞

人類
幹細胞

人類
肝臟細胞

150 多種原代細胞類型

- 來源皆符合規範
- 捐贈者類型廣泛（不同疾病 / 健康狀態 / 人種 / 年齡 / HLA 分型）
- 為每種細胞類型提供專用培養基 BulletKit™

LONZA 原代細胞培養基明星產品系列 _____ P.4

產品系列 1：內皮細胞培養基 - EGM™-2

產品系列 2：纖維母細胞培養基 - FGM™-2

產品系列 3：肝臟細胞培養基 - HCM™

冷凍人類原代細胞 _____ P.5

脂肪細胞正常和病變

呼吸道細胞正常和病變

心肌細胞正常和病變

真皮細胞正常和病變

糖尿病（I 型和 II 型）

內皮細胞正常

上皮細胞正常和病變

纖維母細胞正常和病變

前列腺細胞正常

腎臟細胞正常和病變

骨骼和骨骼肌細胞正常和病變

平滑肌細胞正常和病變

幹細胞正常

冷凍肝細胞 _____ P.9

人類肝細胞 - 貼壁（單一捐贈者）

人類肝細胞 - 懸浮

冷凍人類肝非實質細胞

造血和免疫細胞 _____ P.10

人類週邊血單一核細胞

CD34+ 幹細胞 / 前驅細胞

B 細胞

CD14+ 單核細胞

樹突細胞

自然殺手細胞

T 細胞

Lonza原代細胞培養基明星產品系列

產品系列1：

內皮細胞培養基- EGM™-2

Lonza明星產品 :貨號 CC-3162

應用

EGM-2培養基適合培養大多數類型的大血管內皮細胞。Lonza可以提供多種內皮細胞培養基，以輕鬆培養原代內皮細胞。每種內皮細胞生長培養基都有其特殊的配方，並針對某些細胞類型進行了最佳化。

相關文獻

1. Nature Communications (2021) Synthetic extracellular matrices with tailored adhesiveness and degradability support lumen formation during angiogenic sprouting. <https://doi.org/10.1038/s41467-021-2364-5> N. pathway to regulate vascular development. <https://doi.org/10.1038/s41589-020-00657-7>
2. development. <https://doi.org/10.1038/s41589-020-00657-7>

更多選擇

不同的細胞種類及培養基需求，Lonza也可提供HUVECs培養，不含外源性VEGF的EGM(Cat#CC-3124)和EGM-Plus(-Cat#CC-5035)培養基，以及用於微血管內皮細胞培養的EGM-2 MV(Cat#CC-3202)。

產品系列2：

纖維母細胞培養基- FGM™-2

Lonza明星產品 :貨號 CC-3132

應用

FGM-2旨在支持大多數原代人類纖維母細胞的生長，包括肺部和真皮纖維母細胞。此試劑盒包含包裝在一起的基礎培養基和補充劑，以方便培養纖維母細胞。FGM-2培養基含有2%血清。

相關文獻

1. Nature Communications (2022) A microphysiological model of human trophoblast invasion during implantation. <https://doi.org/10.1038/s41467-022-28663-4> Science Advances (2021)
2. Maintenance and short-sequence long-sequence lived rodent species. <https://doi.org/10.1126/sciadv.abj3284>

更多選擇

對於原代心臟纖維母細胞的培養，Lonza可以提供更高血清濃度的培養基FGM-3(Cat#CC-4526)。FGM-3是專為培養原代心臟纖維母細胞而開發，並含10%血清。

產品系列3：

肝臟細胞培養基- HCM™

Lonza明星產品 :貨號 CC-3198

應用

肝臟細胞大量用於體外藥物動力學試驗，穩定可重複的結果為藥物代謝和毒性的研究提供可靠的依據。HCM無血清培養基可以為來自所有物種的原代肝細胞配製高度可重複的維持培養基。

相關文獻

1. Nature Biotechnology (2022) Engineered circular ADAR-recruiting RNAs increase the efficiency and fidelity of RNA editing in vitro and in vivo. <https://doi.org/10.1038/s41587-021-01180-3> Nature Protocols (2021) Microfluidic integration of regenerable electrochemical affinity-based biosensors for continual monitoring of organ-on-a-chip devices. <https://doi.org/10.1038/s41596-021-005111>



冷凍人類原代細胞

細胞縮寫	品名	細胞貨號	規格	推薦培養基	BulletKit™ 貨號	基礎培養基貨號	SingleQuot™ 貨號
脂肪細胞正常和病變							
ADSC	Adipose-derived stem cells	PT-5006	≥1 million cells	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
Pr-Ad-S	Preadipocytes - subcutaneous	PT-5001,	≥4 million cells	PGM™ 2 BulletKit™	PT-8002, PT-8200	PT-8202	PT-9502
		PT-5020	≥1 million cells		(Insulin free)		
Pr-Ad-V	Preadipocytes - visceral	PT-5005	≥1 million cells	PGM™ 2 BulletKit™	PT-8002, PT-8200	PT-8202	PT-9502
					(Insulin free)		
D-ADSC-Diab T1	(Diabetic Type 1) Adipose-derived stem cells	PT-5007	≥1 million cells	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
D-ADSC-Diab T2	(Diabetic Type 2) Adipose-derived stem cells	PT-5008	≥1 million cells	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
D-PrAd-S-Diab T1	(Diabetic Type 1) Subcutaneous preadipocyte cells	PT-5021	≥1 million cells	PGM™ 2 BulletKit™	PT-8002, PT-8200	PT-8202	PT-9502
					(Insulin free)		
D-PrAd-S-Diab T2	(Diabetic Type 2) Subcutaneous preadipocyte cells	PT-5022	≥1 million cells	PGM™ 2 BulletKit™	PT-8002, PT-8200	PT-8202	PT-9502
					(Insulin free)		
D-PrAd-V-Diab T1	(Diabetic Type 1) Visceral preadipocyte cells	PT-5023	≥1 million cells	PGM™ 2 BulletKit™	PT-8002, PT-8200	PT-8202	PT-9502
					(Insulin free)		
D-PrAd-V-Diab T2	(Diabetic Type 2) Visceral preadipocyte cells	PT-5024	≥1 million cells	PGM™ 2 BulletKit™	PT-8002, PT-8200	PT-8202	PT-9502
					(Insulin free)		
呼吸道							
SAEC	Small airway epithelial cells	CC-2547	≥0.5 million cells	SAGM™ BulletKit™	CC-3118*	CC-3119	CC-4124
SAEC-ALI	Small airway epithelial cells guaranteed for ALI differentiation	CC-2547S	≥0.5 million cells	S-ALI™ BulletKit™	CC-4539*		
NHBE with RA	Bronchial/Tracheal epithelial cells with retinoic acid	CC-2540	≥0.5 million cells	BEGM™ BulletKit™	CC-3170*	CC-3171	CC-4175
NHBE without RA	Bronchial/Tracheal epithelial cells without retinoic acid	CC-2541	≥0.5 million cells	BEGM™ BulletKit™	CC-3170*	CC-3171	CC-4175
NHBE-ALI	Bronchial/tracheal epithelial cells guaranteed for ALI differentiation	CC-2540S	≥0.5 million cells	B-ALI™ BulletKit™	193514*	N/A	N/A
NHLF	Lung fibroblasts	CC-2512	≥0.5 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
HMVEC-L	Lung microvascular endothelial cells	CC-2527	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HPAEC	Pulmonary artery endothelial cells	CC-2530	≥0.5 million cells	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
BSMC	Bronchial smooth muscle cells	CC-2576	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
PASMC	Pulmonary artery smooth muscle cells	CC-2581	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
DHBE-As	(Asthma) Bronchial epithelial cells	194911	≥0.5 million cells	BEGM™ BulletKit™	CC-3170*	CC-3171	CC-4175
DHBE-As-ALI	(Asthma) Bronchial epithelial cells guaranteed for ALI differentiation	194911S	≥0.5 million cells	B-ALI™ BulletKit™	193514*		
DBSMC-As	(Asthma) Bronchial smooth muscle cells	194850	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
DHLF-As	(Asthma) Lung fibroblasts	194912	≥0.5 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
D-SAEC-As	(Asthma) Small airway epithelial cells	CC-2932	≥0.5 million cells	SAGM™ BulletKit™	CC-3118*	CC-3119	CC-4124
DHBE-COPD	(COPD) Bronchial epithelial cells	1952757S	≥0.5 million cells	BEGM™ BulletKit™	CC-3170*	CC-3171	CC-4175
DHLF-COPD	(COPD) Lung fibroblasts	195277	≥0.5 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
D-SAEC-COPD	(COPD) Small airway epithelial cells	CC-2934	≥0.5 million cells	SAGM™ BulletKit™	CC-3118*	CC-3119	CC-4124
DHBE-CF	(Cystic Fibrosis) Bronchial/Tracheal epithelial cells	196979	≥0.5 million cells	BEGM™ BulletKit™	CC-3170*	CC-3171	CC-4175
D-SAEC-CF	(Cystic Fibrosis) Small airway epithelial cells	CC-2933	≥0.5 million cells	SAGM™ BulletKit™	CC-3118*	CC-3119	CC-4124
D-HPAEC-Diab T1	(Diabetic Type 1) Pulmonary artery endothelial cells	CC-2923	≥0.5 million cells	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
DHLF-IPL	(Idiopathic Lung Fibrosis) Lung fibroblasts	CC-7231	≥0.5 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126

* 培養基含 BPE 成份

細胞縮寫	品名	細胞貨號	規格	推薦培養基	BulletKit™ 貨號	基礎培養基貨號	SingleQuot™ 貨號
心肌細胞正常和病變							
HAEC	Aortic endothelial cells	CC-2535	≥0.5 million cells	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
AoSMC	Aortic smooth muscle cells	CC-2571	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
HCAEC	Coronary artery endothelial cells	CC-2585	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
CASMC	Coronary artery smooth muscle cells	CC-2583	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
HMVEC-C	Cardiac microvascular endothelial cells	CC-7030	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
AoAF	Aortic adventitial fibroblasts	CC-7014	≥0.5 million cells	SCGM™ BulletKit™	CC-3205	CC-3204	CC-4181
NHCF-A	Atrial cardiac fibroblasts	CC-2903	≥0.5 million cells	FGM™ 3 BulletKit™	CC-4526	CC-3131	CC-4525
NHCF-V	Ventricle cardiac fibroblasts	CC-2904	≥0.5 million cells	FGM™ 3 BulletKit™	CC-4526	CC-3131	CC-4525
HPAEC	Pulmonary artery endothelial cells	CC-2530	≥0.5 million cells	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
PASMC	Pulmonary artery smooth muscle cells	CC-2581	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-HPAEC-Diab T1	(Diabetic Type 1) Pulmonary artery endothelial cells	CC-2923	≥0.5 million cells	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-3156
D-CASMC-Diab T1	(Diabetic Type 1) Coronary artery smooth muscle cells	CC-2917	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-3181
D-HAEC-Diab T2	(Diabetic Type 2) Aortic endothelial cells	CC-2920	≥0.5 million cells	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-3156
D-HCAEC-Diab T2	(Diabetic Type 2) Coronary artery endothelial cells	CC-2922	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-3156

真皮細胞正常和病變							
HMVEC-dAd	Adult dermal microvascular endothelial cells (blood and lymphatic mix)	CC-2543	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-dNeo	Neonatal dermal microvascular endothelial cells (blood and lymphatic mix)	CC-2505	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
NHDF-Ad	Adult dermal fibroblasts	CC-2511	≥0.5 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
NHDF-Neo	Neonatal dermal fibroblasts	CC-2509	≥0.5 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
NHEK-Ad	Epidermal keratinocytes, Adult	192627	≥0.5 million cells	KGM™ Gold BulletKit™	192060*	192151	192152
NHEK-Neo	Epidermal keratinocytes, Neonatal	192907	≥0.5 million cells	KGM™ Gold BulletKit™	192060*	192151	192152
NHEK-Neo Pooled	Epidermal keratinocytes, Neonatal pooled	192906	≥0.5 million cells	KGM™ Gold BulletKit™	192060*	192151	192152
NHEM-Neo	Neonatal epidermal melanocytes	CC-2504	≥0.5 million cells	MGM™ 4 BulletKit™	CC-3249*	CC-3250	CC-4435
NHEM-Ad	Adult epidermal melanocytes	CC-2586	≥0.5 million cells	MGM™ 4 BulletKit™ + ET3 Supplement	CC-3249*	CC-3250	CC-4435, CC-4510

糖尿病（Ⅰ型和Ⅱ型）							
D-ADSC-Diab T1	(Diabetic Type 1) Adipose-derived stem cells	PT-5007	≥1 million cells	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
D-HPAEC-Diab T1	(Diabetic Type 1) Pulmonary artery endothelial cells	CC-2923	≥0.5 million cells	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
D-PrAd-S-Diab T1	(Diabetic Type 1) Subcutaneous preadipocyte cells	PT-5021	≥1 million cells	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	≥1 million cells	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	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-ADSC-Diab T2	(Diabetic Type 2) Adipose-derived stem cells	PT-5008	≥1 million cells	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
D-HAEC-Diab T2	(Diabetic Type 2) Aortic endothelial cells	CC-2920	≥0.5 million cells	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
D-HCAEC-Diab T2	(Diabetic Type 2) Coronary artery endothelial cells	CC-2922	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
D-RPTC-Diab T2	(Diabetic Type 2) Renal proximal tube epithelial cells	CC-2925	≥0.5 million cells	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
D-PrAd-S-Diab T2	(Diabetic Type 2) Subcutaneous preadipocyte cells	PT-5022	≥1 million cells	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	≥1 million cells	PGM™ 2 BulletKit™	PT-8002, PT-8200 (Insulin free)	PT-8202	PT-9502

* 培養基含 BPE 成份

細胞縮寫	品名	細胞貨號	規格	推薦培養基	BulletKit™ 貨號	基礎培養基貨號	SingleQuot™ 貨號
內皮細胞正常							
HAEC	Aortic endothelial cells	CC-2535	≥0.5 million cells	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
HCAEC	Coronary artery endothelial cells	CC-2585	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HIAEC	Iliac artery endothelial cells	CC-2545	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HPAEC	Pulmonary artery endothelial cells	CC-2530	≥0.5 million cells	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
HUVEC-XL*	Umbilical vein endothelial cells	191027	≥10 million cells	EGM™ 2 BulletKit™	CC-3162	CC-3156	CC-4176
HMVEC-C	Cardiac microvascular endothelial cells	CC-7030	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-L	Lung microvascular endothelial cells (blood and lymphatic mix)	CC-2527	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-dAd	Adult dermal microvascular endothelial cells (blood and lymphatic mix)	CC-2543	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-dNeo	Neonatal dermal microvascular endothelial cells (blood and lymphatic mix)	CC-2505	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147
HMVEC-Bd	Bladder microvascular endothelial cells	CC-7016	≥0.5 million cells	EGM™ 2MV BulletKit™	CC-3202	CC-3156	CC-4147

病灶內皮細胞請參考糖尿病（Ⅱ型和Ⅲ型）部分

*HUVEC 細胞類型	特點	貨號	規格
Isolated in EGM™ Media (CC-3124)	Isolated in absence of defined growth factors. Contains BBE. No exogenous VEGF	CC-2517 (single donor), CC-2519 (pooled donor)	≥0.5 million cells ≥0.5 million cells
Isolated in EGM™-Plus Media (CC-5035)	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)	≥0.5 million cells
Isolated in EGM™ 2 Media (CC-3162)	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)	≥0.5 million cells ≥0.5 million cells ≥10 million cells
Pre-screened HUVECs in EGM™ 2 Media (CC-3162)	Screened for angiogenesis markers and test positive for expression of eNOS, Axl, Tie-2 與 VEGFr2	C2517AS (single donor), C2519AS (pooled donor)	≥0.5 million cells ≥0.5 million cells

病灶內皮細胞請參考糖尿病（Ⅱ型和Ⅲ型）部分

上皮細胞正常和病變							
HMEC	Mammary epithelial cells	CC-2551	≥0.5 million cells	MEGM™ BulletKit™	CC-3150*	CC-3151	CC-4136
PrEC	Prostate epithelial cells	CC-2555	≥0.5 million cells	PrEGM™ BulletKit™	CC-3166*	CC-3165	CC-4177
SAEC	Small airway epithelial cells	CC-2547	≥0.5 million cells	SAGM™ BulletKit™	CC-3118*	CC-3119	CC-4124
SAEC-ALI	Small airway epithelial cells guaranteed for ALI differentiation	CC-2547S	≥0.5 million cells	S-ALI™ BulletKit™	CC-4539*	N/A	N/A
NHBE with RA	Bronchial epithelial cells with retinoic acid	CC-2540	≥0.5 million cells	BEGM™ BulletKit™	CC-3170*	CC-3171	CC-4175
NHBE without RA	Bronchial epithelial cells without retinoic acid	CC-2541	≥0.5 million cells	BEGM™ BulletKit™	CC-3170*	CC-3171	CC-4175
NHBE-ALI	Bronchial epithelial cells guaranteed for ALI differentiation	CC-2540S	≥0.5 million cells	B-ALI™ BulletKit™	193514*	N/A	N/A
HRCE	Cortical epithelial cells	CC-2554	≥0.5 million cells	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
HRE	Renal epithelial cells	CC-2556	≥0.5 million cells	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
DHBE-As	(Asthma) Bronchial epithelial cells	194911	≥0.5 million cells	BEGM™ BulletKit™	CC-3170*	CC-3171	CC-4175
DHBE-As-ALI	(Asthma) Bronchial epithelial cells guaranteed for ALI differentiation	194911S	≥0.5 million cells	B-ALI™ BulletKit™	193514*	N/A	N/A
D-SAEC-As	(Asthma) Small airway epithelial cells	CC-2932	≥0.5 million cells	SAGM™ BulletKit™	CC-3118*	CC-3119	CC-4124
DHBE-COPD	(COPD) Bronchial epithelial cells	195275	≥0.5 million cells	BEGM™ BulletKit™	CC-3170*	CC-3171	CC-4175
D-SAEC-COPD	(COPD) Small airway epithelial cells	CC-2934	≥0.5 million cells	SAGM™ BulletKit™	CC-3118*	CC-3119	CC-4124
DHBE-CF	(Cystic Fibrosis) Bronchial epithelial cells	196979	≥0.5 million cells	BEGM™ BulletKit™	CC-3170*	CC-3171	CC-4175
D-SAEC-CF	(Cystic Fibrosis) Small airway epithelial cells	CC-2933	≥0.5 million cells	SAGM™ BulletKit™	CC-3118*	CC-3119	CC-4124
D-RPTCC-Diab T2	(Diabetic Type 2) Renal proximal tube epithelial cells	CC-2925	≥0.5 million cells	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127

* 培養基含 BPE 成份

細胞縮寫	品名	細胞貨號	規格	推薦培養基	BulletKit™ 貨號	基礎培養基貨號	SingleQuot™ 貨號
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纖維母細胞正常和病變							
AoAF	Aortic adventitial fibroblasts	CC-7014	≥0.5 million cells	SCGM™ BulletKit™	CC-3205	CC-3204	CC-4181
NHCF-A	Atrial cardiac fibroblasts	CC-2903	≥0.5 million cells	FGM™ 3 BulletKit™	CC-4526	CC-3131	CC-4525
NHCF-V	Ventricle cardiac fibroblasts	CC-2904	≥0.5 million cells	FGM™ 3 BulletKit™	CC-4526	CC-3131	CC-4525
NHDF-Ad	Adult dermal fibroblasts	CC-2511	≥0.5 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
NHDF-Neo	Neonatal dermal fibroblasts	CC-2509	≥10 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
NHLF	Lung fibroblasts	CC-2512	≥0.5 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
HPdLF	Peridontal ligament fibroblasts	CC-7049	≥0.5 million cells	SCGM™ BulletKit™	CC-3205	CC-3204	CC-4181
DHLF-As	(Asthma) Lung fibroblasts	194912	≥0.5 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
DHLF-COPD	(COPD) Lung fibroblasts	195277	≥0.5 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126
DHLF-IPL	(Idiopathic Lung Fibrosis) Lung fibroblasts	CC-7231	≥0.5 million cells	FGM™ 2 BulletKit™	CC-3132	CC-3131	CC-4126

前驅細胞							
Pr-Ad-S	Preadipocytes - subcatenous	PT-5001,	≥4 million cells	PGM™ 2 BulletKit™	PT-8002, PT-8200	PT-8202	PT-9502
		PT-5020	≥1 million cells		(Insulin free)		
Pr-Ad-V	Preadipocytes - visceral	PT-5005	≥1 million cells	PGM™ 2 BulletKit™	PT-8002, PT-8200	PT-8202	PT-9502
					(Insulin free)		

前列腺細胞正常							
PrEC	Prostate epithelial	CC-2555	≥0.5 million cells	PrEGM™ BulletKit™	CC-3166	CC-3165	CC-4177

腎臟細胞正常和病變							
HRCE	Cortical epithelial cells	CC-2554	≥0.5 million cells	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
HRE	Renal epithelial cells	CC-2556	≥0.5 million cells	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
RPTEC	Renal proximal tube epithelial cells	CC-2553	≥0.5 million cells	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127
D-RPTEC-Diab T2	(Diabetic Type 2) Renal proximal tube epithelial cells	CC-2925	≥0.5 million cells	REGM™ BulletKit™	CC-3190	CC-3191	CC-4127

骨骼和骨骼肌細胞正常和病變							
NH0st	Osteoblasts	CC-2538	≥0.5 million cells	OGM™ BulletKit™	CC-3207	CC-3208	CC-4193, CC-4194
NHAC-kn	Articular chondrocytes, knee	CC-2550	≥0.75 million cells	CDM™ BulletKit™,	CC-3225,	CC-3226,	CC-4408,
				CGM™ BulletKit™	CC-3216	CC- 3217	CC-4409
HPdLF	Peridontal ligament fibroblasts	CC-7049	≥0.5 million cells	SCGM™ BulletKit™	CC-3205	CC-3204	CC-4181
HSMM	Skeletal muscle myoblasts	CC-2580	≥0.5 million cells	SkGM™ 2 BulletKit™	CC-3245	CC-3246	CC-3244

平滑肌細胞正常和病變							
AoSMC	Aortic smooth muscle cells	CC-2571	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
CASMC	Coronary artery smooth muscle cells	CC-2583	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
BSMC	Bronchial smooth muscle cells	CC-2576	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
PASMC	Pulmonary artery smooth muscle cells	CC-2581	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
DBSMC-As	(Asthma) Bronchial smooth muscle cells	194850	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149
D-CASMC-Diab T1	(Diabetic Type 1) Coronary artery smooth muscle cells	CC-2917	≥0.5 million cells	SmGM™ 2 BulletKit™	CC-3182	CC-3181	CC-4149

細胞縮寫	品名	細胞貨號	規格	推薦培養基	BulletKit™ 貨號	基礎培養基貨號	SingleQuot™ 貨號
幹細胞正常							
ADSC	Adipose-derived stem cells	PT-5006	≥1 million cells	ADSC™ BulletKit™	PT-4505	PT-3273	PT-4503
DPSC	Dental pulp stem cells	PT-5025	≥1 million cells	DPSC™ BulletKit™	PT-3005	PT-3927	PT-4516
MSC	Mesenchymal stem cells	PT-2501	≥0.75 million cells	MSCGM™ Growth BulletKit™, MSC Osteogenic BulletKit™ MSC Chondrogenic BulletKit™, MSC Adipogenic BulletKit™	PT-3001 PT-3002 PT-3003 PT-3004	PT-3238	PT-4105

冷凍肝細胞

細胞類型	形式	細胞貨號	規格	解凍培養基	細胞類型鋪板培養基	維持培養基
人類肝細胞 - 貼附（單一捐贈者）						
Human Hepatocytes, Interaction Qualified	Cryopreserved, plateable	HUCPI	≥5 million cells	MCHT50	MP100	CC-3198
Human Hepatocyte	Cryopreserved, plateable	HUCPG	≥5 million cells	MCHT50	MP100	CC-3198
人類肝細胞 - 懸浮						
DonorPlex™ Human Hepatocytes, 10 donor pool	Cryopreserved, pooled suspension	HUCS10P 或 HUCS10PF 或 HUCS10PM*	≥5 million cells ≥5 million cells ≥5 million cells	MCHT50P	N/A	CC-3198
DonorPlex™ Human Hepatocytes, 20 donor pool	Cryopreserved, pooled suspension	HUCS20P 或 HUCS20PF 或 HUCS20PM*	≥5 million cells ≥5 million cells ≥5 million cells	MCHT50P	N/A	CC-3198
DonorPlex™ Human Hepatocytes 50 donor pool	Cryopreserved, pooled suspension	HUCS50P	≥5 million cells	MCHT50P	N/A	CC-3198
Human Hepatocytes	Cryopreserved, single donor suspension	HUCSD	≥5 million cells	MCHT50	N/A	CC-3198

*備註： F女性捐贈者，M男性捐贈者

冷凍人類肝非實質細胞						
Human Kupffer Cells	Cryopreserved	HLKC-200K HLKC-500K	≥0.2 million cells ≥0.5 million cells	N/A	N/A	N/A
Human Liver Non-Parenchymal Cells	Cryopreserved	HUCNP	≥1 million cells	N/A	MP100	MP100
Human Liver endothelial cells	Cryopreserved	HLECP1	≥1 million cells	N/A	N/A	CC-3162
Human Stellate cells derived from liver	Cryopreserved, passage 1	HUCLS	0.1 million cells	N/A	N/A	MCST250
Human Stellate cells derived from liver	Cryopreserved, low passage	HUCLS-200K	0.2 million cells	N/A	N/A	MST-500BK
Human Stellate cells derived from liver	Cryopreserved, low passage	HUCLS-1M	1 million cells	N/A	N/A	MST-500BK

造血和免疫細胞

細胞類型	貨號	描述	規格	推薦培養基
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人類週邊血單一核細胞

Peripheral Blood - Cryopreserved

Human PBMCs	CC-2702	Mononuclear cells from human peripheral blood	≥50 million cells	04-418Q, 04-448Q
Human PBMCs	CC-2703	Mononuclear cells from human peripheral blood	≥100 million cells	04-418Q, 04-448Q
Human PBMCs	CC-2704	Mononuclear cells from human peripheral blood	≥10 million cells	04-418Q, 04-448Q
Human PBMCs	CC-2705	Mononuclear cells from human peripheral blood	≥25 million cells	04-418Q, 04-448Q
Human PBMCs	CC-2702P	Mononuclear cells from human peripheral blood w/cell population frequency	≥50 million cells	04-418Q, 04-448Q
Human PBMCs	CC-2703P	Mononuclear cells from human peripheral blood w/cell population frequency	≥100 million cells	04-418Q, 04-448Q

CD34+ 幹細胞 / 前驅細胞

Bone Marrow - Cryopreserved

Bone Marrow	2M-101	Bone Marrow CD34+ Progenitor Cells	≥0.1 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
Bone Marrow	2M-101A	Bone Marrow CD34+ Progenitor Cells	≥0.3 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
Bone Marrow	2M-101B	Bone Marrow CD34+ Progenitor Cells	≥0.5 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
Bone Marrow	2M-101C	Bone Marrow CD34+ Progenitor Cells	≥1 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
Bone Marrow	2M-101D	Bone Marrow CD34+ Progenitor Cells	≥2 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q

Cord Blood - Cryopreserved

Cord Blood	2C-101	Cord Blood CD34+ Progenitor Cells	≥1 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
Cord Blood	2C-101A	Cord Blood CD34+ Progenitor Cells	≥0.5 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q

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	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
CD34+ Stem/Progenitor Cells, (positively selected)	4Y-101D	Human CD34+ cells, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥5 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
CD34+ Stem/Progenitor Cells, (positively selected)	4Y-101E	Human CD34+ cells, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥10 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
CD34+ Stem/Progenitor Cells, (positively selected)	4Y-101F	Human CD34+ cells, isolated from mobilized peripheral blood using positive immunomagnetic selection	≥25 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q

B 細胞

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	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
CD19+ B Cells (Negatively selected)	4W-601	Human CD19+ B cells isolated from peripheral blood using negative immunomagnetic selection, cryopreserved	≥10 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q

細胞類型	貨號	描述	規格	推薦培養基
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CD14+ 單核細胞

Peripheral Blood - Cryopreserved				
CD14+ Cells (positively selected)	2W-400A	Peripheral Blood CD14+ Monocytes, positively selected	≥40 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
CD14+ Cells (positively selected)	2W-400B	Peripheral Blood CD14+ Monocytes, positively selected	≥20 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
CD14+ Cells (positively selected)	2W-400C	Peripheral Blood CD14+ Monocytes, positively selected	≥10 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q
CD14+ Monocytes, (negatively selected)	4W-400	Human CD14+ monocytes, isolated from peripheral blood using negative immunomagnetic selection	≥10 million cells	04-380Q, 04-418Q, 02-060F, 02-060Q, 02-053Q

樹突細胞

NHDC Dendritic Cells	CC-2701	Normal Human Dendritic Cells, cryopreserved	≥2.5 million cells	04-418Q, 04-448Q, CC-3211
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自然殺手細胞

Peripheral Blood - Cryopreserved				
Peripheral Blood NK Cells Negative, 5M	2W-501	Peripheral Blood Natural Killer Cells, negatively selected, cryopreserved, 5M cells	≥5 million cells	04-418Q, 04-448Q, CC-3211
Peripheral Blood NK Cells Positive, 5 M	2W-502	Peripheral Blood Natural Killer Cells, positively selected, cryopreserved, 5M cells	≥5 million cells	04-418Q, 04-448Q, CC-3211

T細胞

Peripheral Blood - Cryopreserved				
CD4+ T Cells, (negatively selected)	2W-200	Peripheral Blood CD4+ Helper T Cells, negatively selected	≥10 million cells	04-418Q, 04-448Q, CC-3211
CD8+ T Cells, (negatively selected)	2W-300	Peripheral Blood CD8+ Cytotoxic T Cells, negatively selected	≥10 million cells	04-418Q, 04-448Q, CC-3211
Peripheral Blood - Cryopreserved				
CD4+/CD45RA+ Naïve T Cells, (negatively selected)	4W-202	Human CD4+/CD45RA+ Naïve T cells, isolated from peripheral blood using negative immunomagnetic selection	≥5 million cells	04-418Q, 04-448Q, CC-3211
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	04-418Q, 04-448Q, CC-3211
CD8+/CD45RA+ Naïve Cytotoxic T Cells, (negatively selected)	4W-302	Human CD8+/CD45RA+ naïve cytotoxic T cells, isolated from peripheral blood using negative immunomagnetic selection	≥5 million cells	04-418Q, 04-448Q, CC-3211

Lonza

原代細胞產品目錄