

Hematopoietic Cells from Peripheral Blood (normal, leukapheresed and mobilized), Cord Blood, Bone Marrow and iPSC-derived Hematopoietic Cells

Source Celltype	Leukapheresed Peripheral Blood (IPB)	Normal Peripheral Blood (PB)	Mobilized Peripheral Blood (mPB)	Cord Blood (CB)	Bone Marrow (BM)	iPSC-derived cells
Mononuclear Cells (MNCs) and Plasma	25x10 ⁶ cells (# HC-0025) 50x10 ⁶ cells (# HC-0024) 25x10 ⁶ cells System Complete Kit ³) (# LL-0075) 50x10 ⁶ cells System Complete Kit ³) (# LL-0074)	10x10 ⁶ cells (# ASEPBMC- C10M) 20x10 ⁶ cells (# ASEPBMC- C20M) 50x10 ⁶ cells (# ASEPBMC- C50M) 100x10 ⁶ cells (# ASEPBMC- C100M)	50x10 ⁶ cells (# ASEMPBMC -C50M) 100x10 ⁶ cells (# ASEMPBMC -C100M) 200x10 ⁶ cells (# ASEMPBMC -C200M)	Plasma 10 mL (# ASEFC-001- C10) CB MNC 10x10 ⁶ cells (# ASECBMNC -C10M) 50x10 ⁶ cells (# ASECBMNC -C50M) 150x10 ⁶ cells (# ASECBMNC -C150M) 200x10 ⁶ cells (# ASECBMNC -C200M)	5x10 ⁶ cells (# ASEBMMN- C5M) 10x10 ⁶ cells (# ASEBMMN- C10Mv) 20x10 ⁶ cells (# ASEBMMN- C20M) 50x10 ⁶ cells (# ASEBMMN- C50M)	
CD3⁺ Pan T Cells	5x10 ⁶ untouched ¹) cells (# HC- 0026) 10x10 ⁶ untouched ¹) cells (# HC- 0027) 10x10 ⁶ untouched ¹) cells System Complete Kit ³) (# LL-0077)	10x10 ⁶ cells (# ASEPBCD3- C10M) 20x10 ⁶ cells (# ASEPBCD3- C20M)		10x10 ⁶ cells (# ASECBCD3- C10M) 20x10 ⁶ cells (# ASECBCD3- C20M)		
CD4⁺ T Helper Cells		10x10 ⁶ cells (# ASEPBCD4- C10M)				
CD4⁺/CD8⁺ T Cells						1x10 ⁶ cells +100 mL T Cell Basal Media and 1 mL T Cell Supplement (# ASE- 9720) ^{4,5})
CD4⁺/CD25⁺ Regulatory T Cells (Treg)		2x10 ⁶ cells (# ASEPBCD4- 25-C2M)				



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CD4 ⁺ /CD25 ⁺ / CD127 ^{low} Regulatory T Cells (Treg)		1x10 ⁶ cells (# ASEPBCD4- Treg-C1M) 2x10 ⁶ cells (# ASEPBCD4- Treg-C2M)				
CD4 ⁺ /CD45RA + Naïve T Cells				5x10 ⁶ cells (# ASECBCD4- 45RA-C5M) 10x10 ⁶ cells (# ASECBCD4- 45RA-C10M) 15x10 ⁶ cells (# ASECBCD4- 45RA-C15M)		
CD4 ⁺ /CD45RA +/ CD25 ⁻ Naïve T Cells		5x10 ⁶ cells (# ASEPBCD4 Naive-C5M)				
CD4 ⁺ /CD45RO + Memory T Cells		5x10 ⁶ cells (# ASEPBCD4- 45RO-C5M)				
CD5 ⁺ /CD7 ⁺ Hematopoieti c Progenitor Cell Kit						(# ASE-9721) ⁴⁾
CD8 ⁺ Cytotoxic T Cells		10x10 ⁶ cells (# ASEPBCD8- C10M)		5x10 ⁶ cells (# ASECBCD8- C5M)		
CD8 ⁺ /CD45RA + Naïve Cytotoxic T Cells		5x10 ⁶ cells (# ASEPBCD8- 45RA-C5M)				
CD14 ⁺ Monocytes	5x10 ⁶ positively selected cells ²⁾ (# HC- 0030)	10x10 ⁶ untouched cells ¹⁾ (# ASEPBCD14 U-C10M) 20x10 ⁶ positively selected cells (# ASEPBCD14 P-C20M) 40x10 ⁶ positively selected cells ²⁾ (# ASEPBCD14 P-C40M)		5x10 ⁶ cells (# ASECBCD14 -C5M)		



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Source Celltype	Leukapheresed Peripheral Blood (IPB)	Normal Peripheral Blood (PB)	Mobilized Peripheral Blood (mPB)	Cord Blood (CB)	Bone Marrow (BM)	iPSC-derived cells
CD19 ⁺ B Cells		10x10 ⁶ untouched cells ¹⁾ (# ASEPBCD19-C10M) 10x10 ⁶ positively selected cells (# ASEPBCD19-P-C10M)		2,5x10 ⁶ cells (# ASECBCD19-C2.5M) 5x10 ⁶ cells (# ASECBCD19-C5M)		
CD19 ⁺ /IgD ⁺ Naïve B Cells		1x10 ⁶ untouched ¹⁾ cells (# ASEPBCD19-IgD-C1M)				
CD34 ⁺ Hematopoietic Stem/ Progenitor Cells (HSC / HPC)			0,2x10 ⁶ cells (# ASEMPBCD34-C0.2M) 1x10 ⁶ cells (# ASEMPBCD34-C1M) 5x10 ⁶ cells (# ASEMPBCD34-C5M) 10x10 ⁶ cells (# ASEMPBCD34-C10M) 20x10 ⁶ cells (# ASEMPBCD34-C20M)	0,5x10 ⁶ cells from single donor (# ASECBCD34-C0.5M) 1x10 ⁶ cells from single donor (# ASECBCD34-C1M) 0,5x10 ⁶ cells from mixed donors (# ASECBCD34-mix-C0.5M) 1x10 ⁶ cells from mixed donors (# ASECBCD34-mix-C1M) 5x10 ⁶ cells from mixed donors (# ASECBCD34-mix-C5M)	0,5x10 ⁶ cells from single donor (# ASEBMCD34-C0.5M) 1x10 ⁶ cells from single donor (# ASEBMCD34-C1M) 5x10 ⁶ cells from single donor (# ASEBMCD34-C5M)	1x10 ⁶ iPSC- derived CD34 ⁺ HPC Kit + 100 mL HPC Culture Basal Media (# ASE-9718) ^{4,5)}
CD34- Depleted Cell Fraction (CD34 ⁻ cells)			100x10 ⁶ CD34- depleted mPB MN cells (# ASEMPBCD34-deplete)	100-200x10 ⁶ CD34- depleted CB MN cells (# ASECBCD34-deplete)	100x10 ⁶ CD34- depleted BM MN cells from single donor (# ASEBMCD34-deplete)	



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CD56 ⁺ NK Cells		5x10 ⁶ untouched ¹⁾ cells (# ASEPBCD56 U-C5M) 5x10 ⁶ positively selected cells (# ASEPBCD56 P-C5M)		1x10 ⁶ cells (# ASECBCD56 -C1M)		Natural Killer Cell Kit 1x10 ⁶ cells (# ASE- 9285) ^{4,6)} or (# ASE-9708) ^{4,5)} + 100 mL NK Cell Culture Media + 1 mL NK Cell Media Supplement A (100x)

- 1) Untouched cells are isolated by depletion (removal) of non-target cells. Target cells are not labelled by immunomagnetic reagents.
- 2) Positively selected cells are enriched by immunomagnetic positive selection.
- 3) RPMI 1640-FBS Medium Complete Kit with frozen basal medium containing phenol red, 2 mM L-glutamine, 25 mM HEPES and 1 mM sodium pyruvate. The Kit also contains Fetal Bovine Serum and Gentamicin Amphotericin B.
- 4) To harness the full potential of provided iPSC-derived cells, optimized Culture Media which supports robust maintenance and functionality of the cells in culture is included in the kit.
- 5) iPSC-derived cells are differentiated from iPSC line [ASE-9211](#), a iPSC Line derived from African American, male, neonatal fibroblasts; NIST Line.
- 6) iPSC-derived cells are differentiated from iPSC line [ASE-9280](#), GMP Grade iPSCs derived from CD34⁺, male cord blood cells.



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