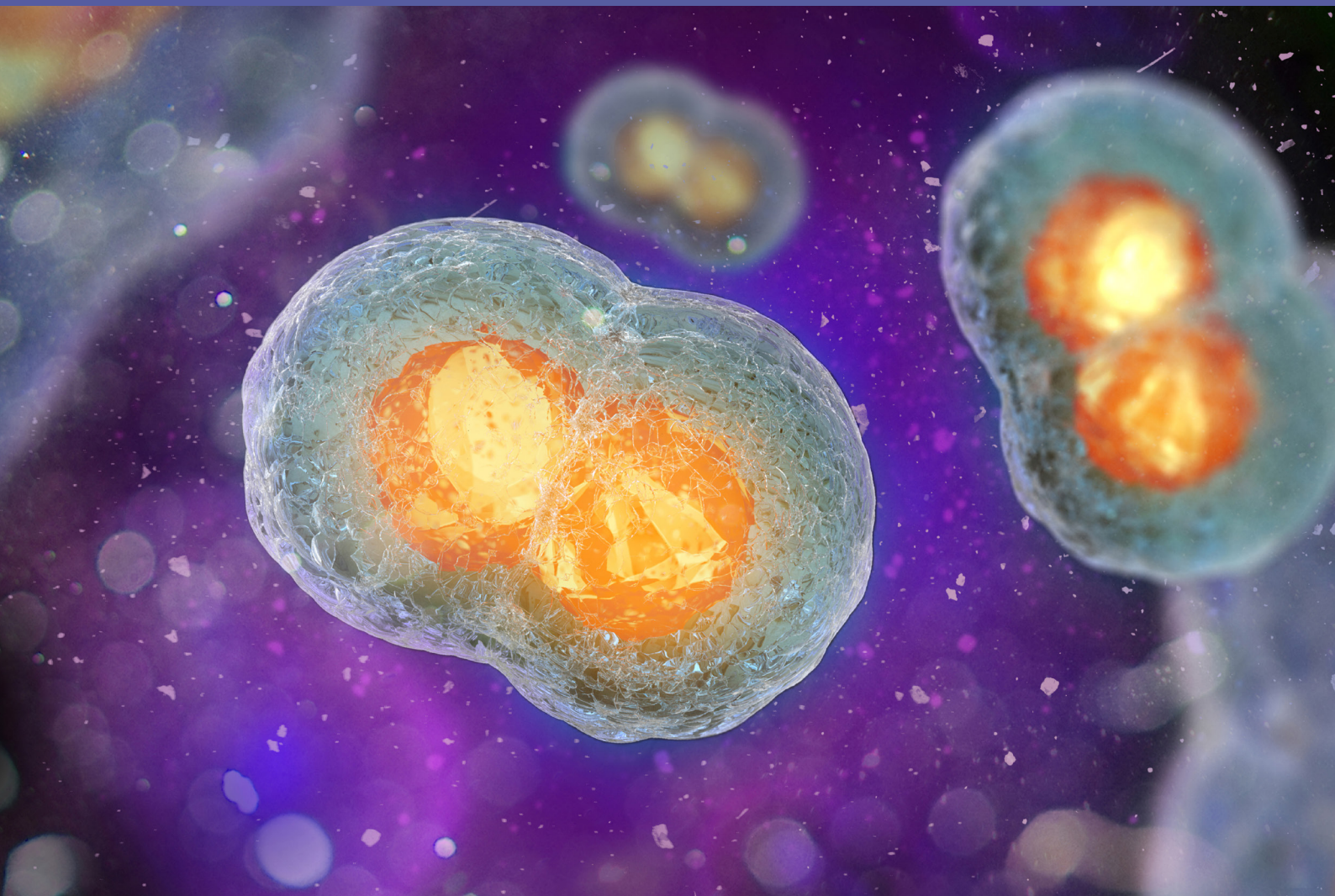


Custom Human Immune Cell Isolations Through CellBio Services

Capabilities Guide

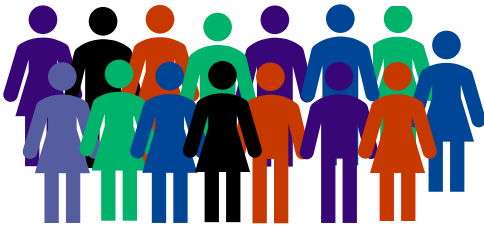


We offer custom immune cell isolations through Lonza CellBio Services from a variety of tissues including human leukopaks, whole blood, bone marrow, and cord blood. Below are samples of some of the custom isolations we can provide. Additional cell types and donor-matched cell types may be available upon request. Partner with Lonza CellBio Services for tailored tools and custom services to meet your unique research needs.

Customized Isolations Tailored to Your Requirements

Option 1

Select Donor Demographics
(HLA type, age, sex, ethnicity, etc.)



Option 2

Select Cell Types



Monocytes



T Cells



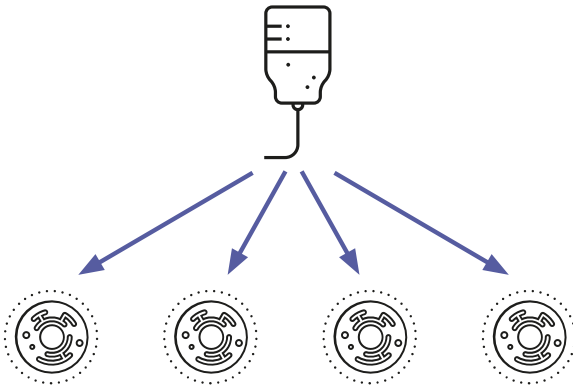
CD34+



Natural Killer Cells

Option 3

Isolate Multiple Matched Cells from a single tissue sample



Custom Cell Isolations from Peripheral Blood Leukopaks

- Features:** Combined isolation of different cell types from the same donor is possible; Recallable donors are possible; Maximum quality and yield compared to bone marrow and whole blood; Cryopreserved in vials sized according to your requirements
- Donor Specs:** Normal donors; Age 18–65 years; Male/Female; Selectable HLA-Type

	Quarter Leukopak	Half Leukopak	Full Leukopak
Cell Types	Batch Yield Upon Thaw (in Millions)+		
Mononuclear Cells	1,000–2,400	2,000–4,800	4,000–8,000
Monocytes (Positive Selection)	20–160	50–400	80–640
Natural Killer (NK) (Positive Selected)	10–80	25–200	40–320
CD3+ PanT Cells	50–320	150–800	225–1280
CD4+ T-Cells	40–320	100–800	150–1200
CD8+ T-Cells	20–160	50–400	80–640
Gamma Delta T-Cells	5–24	13–120	25–240
PanB Cells	10–80	25–200	40–320
Monocyte Derived Dendritic Cells	25–200	70–400	125–800

Custom Cell Isolations from Bone Marrow

- Features:** Recallable donors are possible; Matched bone marrow and whole blood (100 ml) isolations are available as a special request; Cryopreserved in vials sized according to your requirements
- Donor Specs:** Normal donors only; Age 18–45; Male/Female

	50 mL Bone Marrow	100 mL Bone Marrow
Cell Types	Batch Yield Upon Thaw (in Millions)+	
Mononuclear Cells	100–480	350–960
Monocytes (Positive Selection)	4–32	8–64
CD3+ PanT Cells	10–64	20–120
CD4+ T-Cells	8–64	15–120
CD8+ T-Cells	4–32	8–64
PanB Cells	2–16	4–32
Monocyte Derived Dendritic Cells	5–40	10–80

Custom Cell Isolations from Whole Blood

- **Features:** Recallable donors are possible; Matched bone marrow and whole blood (100 ml) isolations; Cryopreserved in vials sized according to your requirements
- **Donor Specs:** Normal and diseased donors; Age ≥ 18 ; Older donors and diseased donors are available as a special request

	120 mL Whole Blood	240 mL Whole Blood	480 mL Whole Blood
Cell Types	Batch Yield Upon Thaw (in Millions)+		
Mononuclear Cells	25–160	50–320	100–640
Monocytes (Positive Selection)	1–10	2–19	4–38
Natural Killer (NK) (Positive Selected)	1–5	1–10	2–19
CD3+ PanT Cells	3–19	8–40	13–80
CD4+ T-Cells	2–19	4–38	8–80
CD8+ T-Cells	1–10	2–19	4–38
Gamma Delta T-Cells	1–2	1–2	1–4
PanB Cells	1–5	1–10	2–19
Monocyte Derived Dendritic Cells	1–8	2–12	3–20

Timelines

Most custom isolations from leukopaks, bone marrow, and whole blood can be set up, produced, and ready to ship within North America within four weeks (excluding additional time for any requested Quality Control testing) of receipt of purchase order; specific donor requirements may increase lead time depending on the rarity of such donors in the general population; shipments outside of North America require additional time.

Add-On QC Testing

Test	Requirement	Timeline
Sterility	1 Vial	3 weeks
Mycoplasma (Lonza MycoAlert [®] Mycoplasma Detection Kit)	1 Vial	1 week
Viability & Cell Count	1 Vial	1 day
Virus Testing (HIV/HBV/HCV)	0 Vials	1 day
HLA Typing	Variable	<3 weeks
FACS/Other Testing	Variable	To Be Determined

+ Yield provided is an estimate and cannot be guaranteed for all productions

Contact us at CellBioServices@lonza.com to discuss your project today!

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Learn more.



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CD-DS057 08/24