

For additional details and protocols, or to inquire about other collection methods, please email us at info@teiko.bio

Sample	Species supported	Collection kits supported	Anticoagulant tube supported	Isolation method	Tissue digestion required?	Fixation required?	Viability stain required?	Fixative used at trial site	Volume requested	Storage	Storage duration	Shipping requirements
PBMCs	Human, NHP & Mouse	N/A	N/A	Ficoll; CPT tube	N/A	No	N/A	N/A	Human: 0.5-1M cells	Liquid nitrogen	Several years	Dry ice
									NHP: 0.5-1M cells			
									Mouse: 0.25-0.75M cells			
Whole blood	Human & NHP	TokuKit	EDTA (lavender)	N/A	N/A	Yes	No	SmartTube Buffers (Stable Lyse, Stable Store)	Human: 1-2 mL blood	-80°C or Liquid nitrogen	Several months (-80°C) to years (liquid nitrogen)	Dry ice
			Heparin (green)									
			Citrate/ACD (yellow)						NHP: 1-2 mL blood			
	Mouse	N/A	EDTA	N/A	N/A	Yes	No	SmartTube Buffers (PROT1)	Mouse: 100-200 µL blood	-80°C or Liquid nitrogen	Several months (-80°C) to years (liquid nitrogen)	Dry ice
Bone marrow aspirate	Human & NHP	N/A	EDTA (lavender)	N/A	N/A	No	N/A	N/A	Human: 0.5-1M cells	Liquid nitrogen	Several years	Dry ice
			Heparin (green)									
			Citrate/ACD (yellow)						NHP: 0.5-1M cells			
	Mouse	N/A	EDTA	N/A	N/A	Yes	Yes, Cisplatin	Paraformaldehyde (PFA)	0.25 - 0.75 M cells	-80°C or Liquid Nitrogen	Several months (-80°C) to years (liquid nitrogen)	Dry ice
Bone marrow mononuclear cells	Human & NHP	N/A	EDTA (lavender)	Ficoll	N/A	No	N/A	N/A	Human: 0.5-1M cells	Liquid nitrogen	Several years	Dry ice
			Heparin (green)									
			Citrate/ACD (yellow)						NHP: 0.5-1M cells			
Tumor-infiltrating lymphocytes	Human, NHP & Mouse	N/A	N/A	N/A	Yes, to remove TILs from tumor	Yes	Yes, Cisplatin	Paraformaldehyde (PFA)	Human: 0.5-1M cells	-80°C or Liquid Nitrogen	Several months	Dry ice
									NHP: 0.5-1M cells			
									Mouse: 0.25-0.75M cells			
Solid tissue (e.g. tumor, spleen, lymph nodes, etc.)	Human, NHP & Mouse	N/A	N/A	N/A	Yes	Yes	Yes, Cisplatin	Paraformaldehyde (PFA)	Human: 0.5-1M cells	-80°C or Liquid Nitrogen	Several months	Dry ice
									NHP: 0.5-1M cells			
									Mouse: 0.25-0.75M cells			

Unsuitable sample formats

Fixed Formalin Paraffin Embedded [FFPE]

Flash frozen blood or tissue

Fresh blood in vacutainers

Plasma

Serum

Blood collected with RNA collection tubes (PAXgene tubes, TEMPUS tubes, etc)

Fresh (unfixed) tissue

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We work with blood, tissue and tumor samples

Suitable samples



- [PBMCs](#)
- [Whole blood](#)
- [Tumor-infiltrating lymphocytes](#)
- [Bone marrow aspirate](#)
- [Bone marrow mononuclear cells](#)
- [Engineered cell therapy preparations](#)
- [Tumor](#)



- [PBMCs](#)
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- [PBMCs](#)
- [Whole blood](#)
- [Lymph node](#)
- [Spleen](#)
- [Bone marrow aspirate](#)
- [Tumor](#)

Unsuitable samples

- ✗ FFPE tissue
- ✗ Flash-frozen sample
- ✗ Fresh blood in vacutainers
- ✗ Plasma
- ✗ Serum
- ✗ Blood from RNA collection tubes
- ✗ Fresh (unfixed) tissue

Human Sample Types



Requirements for human PBMCs

Sample collection and processing



PBMCs can be isolated through Ficoll or CPT tubes.



No fixation required, viably cryopreserve.



Volume requested: 0.5 - 1 M cells.

Storage & Shipping



PBMCs should be stored in liquid nitrogen.



In liquid nitrogen, PBMCs can be stored for several years.



Ship on dry ice.



Requirements for human whole blood

Sample collection and processing



Use Teiko's TokuKit or provide your own SmartTube buffers.
Supports blood collection with EDTA, heparin or citrate vacutainers.



Samples should be fixed with the Stable-Lyse Stable-Store protocol.



Volume requested: 1 - 2 mL blood.

Storage & Shipping



Whole blood can be stored at -80°C or liquid nitrogen (LN).



Whole blood can be stored for several months (-80°C) or years (LN).



Ship on dry ice.



Requirements for human tumor-infiltrating lymphocytes (TILs)

Sample collection and processing



Tissue needs to be digested into a single-cell suspension to free TILs from tumor.



Samples should be assessed for viability with cisplatin and fixed with paraformaldehyde.



Volume requested: 0.5 - 1 M cells

Storage & Shipping



Samples can be stored at -80°C or liquid nitrogen (LN).



Samples can be stored for several months (-80°C) or years (LN).



Ship on dry ice.



Requirements for human bone marrow aspirate (BMA)

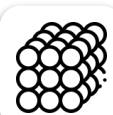
Sample collection and processing



Supports bone marrow collection with EDTA, heparin or citrate vacutainers.



No fixation required, viably cryopreserve.



Volume requested: 0.5 - 1 M cells.

Storage & Shipping



BMA should be stored in liquid nitrogen.



In liquid nitrogen, BMA can be stored for several years.



Ship on dry ice.



Requirements for human bone marrow mononuclear cells (BMMCs)

Sample collection and processing



Supports bone marrow collection with EDTA, heparin or citrate vacutainers and BMMC isolation through Ficoll.



No fixation required, viably cryopreserve.



Volume requested: 0.5 - 1 M cells.

Storage & Shipping



BMMC should be stored in liquid nitrogen.



In liquid nitrogen, BMMC can be stored for several years.



Ship on dry ice.



Requirements for human engineered cell therapy preparations

Sample collection and processing



Cell therapy preparations should be single-cell suspensions.



No fixation required, viably cryopreserve.



Volume requested: 0.5 - 1 M cells.

Storage & Shipping



Cell preparations should be stored in liquid nitrogen.



In liquid nitrogen, cell preparations can be stored for several years.



Ship on dry ice.



Requirements for human solid tissue

Sample collection and processing



Tissue needs to be digested into a single-cell suspension.



Samples should be assessed for viability with cisplatin and fixed with paraformaldehyde.



Volume requested: 0.5 - 1 M cells

Storage & Shipping



Samples can be stored at -80°C or liquid nitrogen (LN).



Samples can be stored for several months (-80°C) or years (LN).



Ship on dry ice.

NHP Sample Types



Requirements for NHP PBMCs

Sample collection and processing



PBMCs can be isolated through Ficoll or CPT tubes.



No fixation required, viably cryopreserve.



Volume requested: 0.5 - 1 M cells.

Storage & Shipping



PBMCs should be stored in liquid nitrogen.



In liquid nitrogen, PBMCs can be stored for several years.



Ship on dry ice.



Requirements for NHP whole blood

Sample collection and processing



Use Teiko's TokuKit or provide your own SmartTube buffers.
Supports blood collection with EDTA, heparin or citrate vacutainers.



Samples should be fixed with the Stable-Lyse Stable-Store protocol.



Volume requested: 1 - 2 mL blood.

Storage & Shipping



Whole blood can be stored at -80°C or liquid nitrogen (LN).



Whole blood can be stored for several months (-80°C) or years (LN).



Ship on dry ice.



Requirements for NHP bone marrow aspirate (BMA)

Sample collection and processing



Supports bone marrow collection with EDTA, heparin or citrate vacutainers.



No fixation required, viably cryopreserve.



Volume requested: 0.5 - 1 M cells.

Storage & Shipping



BMA should be stored in liquid nitrogen.



In liquid nitrogen, BMA can be stored for several years.



Ship on dry ice.



Requirements for NHP bone marrow mononuclear cells (BMMCs)

Sample collection and processing



Supports bone marrow collection with EDTA, heparin or citrate vacutainers and BMMC isolation through Ficoll.



No fixation required, viably cryopreserve.



Volume requested: 0.5 - 1 M cells.

Storage & Shipping



BMMC should be stored in liquid nitrogen.



In liquid nitrogen, BMMC can be stored for several years.



Ship on dry ice.



Requirements for NHP solid tissue

Sample collection and processing



Tissue needs to be digested into a single-cell suspension.



Samples should be assessed for viability with cisplatin and fixed with paraformaldehyde.



Volume requested: 0.5 - 1 M cells

Storage & Shipping



Samples can be stored at -80°C or liquid nitrogen (LN).



Samples can be stored for several months (-80°C) or years (LN).



Ship on dry ice.

Murine Sample Types



Requirements for murine PBMCs

Sample collection and processing



PBMCs can be isolated through Ficoll or CPT tubes.



No fixation required, viably cryopreserve.



Volume requested: 0.25 - 0.75 M cells.

Storage & Shipping



PBMCs should be stored in liquid nitrogen.



In liquid nitrogen, PBMCs can be stored for several years.



Ship on dry ice.



Requirements for murine tumor-infiltrating lymphocytes (TILs)

Sample collection and processing



Tissue needs to be digested into a single-cell suspension to free TILs from tumor.



Samples should be assessed for viability with cisplatin and fixed with paraformaldehyde.



Volume requested: 0.25 - 0.75 M cells

Storage & Shipping



Samples can be stored at -80°C or liquid nitrogen (LN).



Samples can be stored for several months (-80°C) or years (LN).



Ship on dry ice.



Requirements for murine whole blood

Sample collection and processing



Collect blood with EDTA anticoagulant tubes.



Samples should be fixed with the Smart Tube PROT1 protocol.



Volume requested: 100 - 200 μ L blood.

Storage & Shipping



Whole blood can be stored at -80°C or liquid nitrogen (LN).



Whole blood can be stored for several months (-80°C) or years (LN).



Ship on dry ice.



Requirements for murine bone marrow aspirate (BMA)

Sample collection and processing



Supports bone marrow collection with EDTA vacutainers.



Samples should be assessed for viability with cisplatin and fixed with paraformaldehyde.



Volume requested: 0.25 - 0.75 M cells.

Storage & Shipping



BMA can be stored at -80°C or liquid nitrogen (LN).



BMA can be stored for several months (-80°C) or years (LN).



Ship on dry ice.



Requirements for murine solid tissue

Sample collection and processing



Tissue needs to be digested into a single-cell suspension.



Samples should be assessed for viability with cisplatin and fixed with paraformaldehyde.



Volume requested: 0.25 - 0.75 M cells

Storage & Shipping



Samples can be stored at -80°C or liquid nitrogen (LN).



Samples can be stored for several months (-80°C) or years (LN).



Ship on dry ice.