

CHANGES TO AATB STANDARDS FOR TISSUE BANKING

SECTION E - PROCESSING, PRESERVATION, QUARANTINE, AND STORAGE

E4.000 STORAGE

E4.100 Storage Temperatures

E4.140 Monitoring Storage Temperatures

Current (13th edition)

E4.141 Storage Conditions for Commonly Transplanted Human Tissue

Human Tissue	Storage Conditions	Temperature (°C) *
Cardiac, Vascular	Frozen, <i>Cryopreserved</i>	-100°C or colder
Musculoskeletal	Refrigerated	Above freezing (0°C) to 10°C
	Frozen, <i>Cryopreserved</i> and non-cryopreserved (temporary storage for 6 months or less)	-20°C to -40°C
	Frozen, <i>Cryopreserved</i> and non-cryopreserved (long term storage)	-40°C or colder
	Lyophilized	Ambient **
Reproductive	Frozen, <i>Cryopreserved</i>	LN ₂ (Liquid or Vapor)
Skin	Refrigerated	Above freezing (0°C) to 10°C
	Frozen, <i>Cryopreserved</i>	-40°C or colder
	Lyophilized	Ambient **

* Warmest target temperature unless noted to be a range

** Ambient temperature monitoring not required for lyophilized tissue

(with amendments)

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Cardiac, Vascular	Frozen, <i>Cryopreserved</i>	-100°C or colder
<u><i>Cellular</i></u>	<u><i>Refrigerated</i></u>	<u><i>Above freezing (0°C) to 10°C</i></u>
	<u><i>Frozen, Cryopreserved</i></u>	<u><i>Established by tissue bank</i></u>
Musculoskeletal	Refrigerated	Above freezing (0°C) to 10°C

	Frozen, <i>Cryopreserved</i> and non-cryopreserved (temporary storage for 6 months or less)	-20°C to -40°C
	Frozen, <i>Cryopreserved</i> and non-cryopreserved (long term storage)	-40°C or colder
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Publication date: November 12, 2013 (AATB Bulletin No. 13-18)

Effective date: February 10, 2014 (in 90 days)