

Biobank for Translational Medicine: Standard Operating Procedures for Optimal Sample Management

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Materials

Name	Company	Catalog Number	Comments
Blue Max Con Tubes 15 mL	Falcon B.D	352096	
Blue Max Con Tubes 50 mL	Euroclone Spa	FLC352070	
Box with 81 position for tissue storage	Ettore Pasquali Srl.	06.0945.00	
cf-DNA/cf-RNA Preservative Tubes	Norgen Biotek	63950	Preservation and isolation of both cf-DNA and cf-RNA from a single tube and in particular preserve cf-DNA/ct-DNA for 30 days at ambient temperature and for up to 8 days at 37 °C
Cryomold Standard (25 X 20 X 5 mm)	Olympus Italia S.r.l.	4557	Disposable plastic Cryomold molds create a uniformly shaped, flat-surface specimen block when used with O.C.T
Dimethyl Sulfoxide Plastic Bottle - 1 L	Vwr International S.R.L.	MFCD00002089	It acts to preserve the reconstitution of the medium for the storage of frozen cells
Dpbs 1x W/o Ca And Mg - 500 mL	Microtech Srl	TL1006-500ML	Washing Buffer cell
Dualfilter T.I.P.S 1,000 µL	Euroclone Spa	4809	
Dualfilter T.I.P.S 200 µL	Euroclone Spa	4823	
Easytrack Barcode Reader for single tube datamatrix	Twin Helix Srl	TH-ETR4400	2D barcode tubes reader with USB connection
Fetal Bovine Serum Origin Brasileu S/fil	Microtech S.R.L	RM10532-500ML	Defrost at +4 °C, usually for two days, and once melted, start decomplexation at 56 °C for 45 min Let it cool down to room temperature, and aliquot it. Refroze them to -20

			°C, and remember to defrost them every time the aliquots are needed
Ficoll Paque Plus (ge) 6 x 500 mL	Euroclone Spa	GEH17144003	Ficoll is a medium for density gradient, It is sterile and ready for use. It allows to get peripheral blood mononuclear cells, bone marrow and umbilical cord blood
Fixing solution Killik of 100 mL (OCT)	Bio-optica Milano S.p.a.	05-9801	Gel inclusion medium that solidifies at cold the water-soluble tissue (e.g., biopsies, frustules)
FLASH-FREEZE	Milestone	n.a.	Freezing appliance
Forma 8600 Series Chest Freezers (Temperature Range: -50 °C to -86 °C) 85 liters	Thermo Fisher Scientific Srl	803CV	Orizzontal freezer
Isopentane 500 mL	Vwr International S.R.L.	24872260	Liquid included in the FLASH-FREEZE camera for freezing
Nautilus Lims Software	Thermo Scientific™	n.a.	The software implementation is able to track all patients' biological samples. Receives Personal and Clinical information automatically during registration due to the integration with IEO operating systems. Nautilus is integrated with the web service through three IEO operative systems: BAC - IEO central registry with personal information, wHospital - medical record
Pasteur pipette 10 mL	Euroclone Spa	CC4488	
Pasteur pipette 3 mL	Euroclone Spa	APT1502	
PATHOX	Dedalus ItaliTesi Elettronica e Sistemi Informativi S.p.A.a S.p.A.	n.a.	PATHOX - management system for the Pathology unit where several factors are registered for the Biobank, such as the histological samples, the related diagnoses, and biomarkers
Petri dishes, polystyrene - size 100 mm x 20 mm, slippable	Euroclone Spa	FLC353003	
Set of 4 adapters 19 x 5/7 mL vac	Thermo Fisher Scientific Srl	75003680	
Set of 4 adapters 4 x 50 conical	Thermo Fisher Scientific Srl	75003683	
Set of 4 adapters 9 x 15 mL conical	Thermo Fisher Scientific Srl	75003682	
Single-use slide for counting cell	Biosigma S.P.A.	347143/001	Specifically used for individual cell count
Stamps Freezerbondz for tissue boxes, nitrogen-liquid proof , H 9,53 mm x L 25,40 mm	Twin Helix Srl	THT-152-492-3	
Thermo Scientific TSX Series Ultra-Low Freezers (-50 °C to -86 °C) 949 liters	Thermo Fisher Scientific Srl	TSX70086V	Vertical freezer
Thermo Scientific Refrigerated Centrifuge SL16R	Thermo Fisher Scientific Srl	75004030	
Tissue box labels in Permanent	Twin Helix Srl	THT-199-482-3	
Tuerks Solution	Merck Life Science S.R.L.	1092770100	In light microscopy, it is specifically used as stain for leukocyte
TX-400 Rotor TX-400 swinging bucket hol	Thermo Fisher Scientific Srl	75003181	
White box for storage	Bio Optica	07-7300	
wHospital Software	wHealth Lutech Group	n.a.	wHospital - medical record management system with personal information, administrative cases,

			and the informed consent of the patients
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