May 27, 2024 Version 4

Tissue processing and freezing after surgery V.4

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Protocol status: Working
We use this protocol and it's working

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Abstract

The aim of this protocol is to document the processing of fresh tissue after surgery.

The collected tissue must also be documented in the files which are linked down below

The protocol descibes in detail how to process the resulting tissue from following protocols:

Gewebesammlung Frischgewebe Zystektomie
Gewebesammlung Frischgewebe Prostatektomie
Gewebesammlung Frischgewebe Nephrektomie

in the current version.

Materials

Transport medium
MEM : Prozent: 98 %
Zellshield : Prozent: 2 %

MEM mit Earle's Salzen, mit 2,2 g/l NaHCO3, mit stabilem Glutamin
Hersteller/Lieferant: Biosell
Katalog #:BS.FG0325

ZellShield
Hersteller/Lieferant: Minerva BioLabs
Katalog #:13-0050

Freezing medium
FKS : Prozent: 90 %
DMSO : Prozent: 10 %

FBS Superior stabil
Hersteller/Lieferant: Biosell
Katalog #:FBS. S 0615

sterile forceps, scapels and petri dishes
1 ml Cryotubes

Sample processing in the lab

1 Fresh tissue should be processed on the same day if possible, but can be stored at 4°C for a maximum of overnight.
To reduce pathogens, the tissue should be incubated for 01:00:00 at
Room temperature

1h

2

	Patient#	Organ	Visit

3

Note

Comments/remarks on the tissue/processing:

4 The tissue is divided in the lab into pieces with an edge length of 1-2 mm.
Mix the fragments of a tumor piece so that each aliquot is as representative as possible of the tumor area.

5 16 (decision from June 29, 2023; previously: 8) fragments are stored in 1 ml of freezing medium in a cryotube.
If there are enough fragments for more than 4 cryotubes, more fragments can be combined in one tube. A maximum of 5 cryotubes of each entity are frozen.

6 New procedure for storage and dokumentation started in May 2024 (change of storage tubes to LVL-Tubes with Barcode)

6.1 scan tube numbers and fill in the list mentioned in Step 9

6.2 Cryo tubes should be additionally labelled as follows:
Patient ID, Organ, T1/T2 resp. N1/N2...
No. of Pieces
Date

7 Freeze samples in Mr. Frosty overnight.

8 On the next day transfer the tubes to N2 in the right order and document the location in the N2 binder and the list mentioned in Step 9

Documentation

9 Store patient data :
BIOBANKING und EVEs_ab 23052024.xlsx

10 *Please add pictures of:*

- *the orgin of the sample in the organ (if avaible)*
- *each tissue piece that has been taken before cutting the fragments. The picture should include the tissue ID (in the picture)*
- *the documentation sheet*

Note