Tissue processing and freezing after surgery V.1

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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:

Protocol

NAME

Gewebesammlung Frischgewebe Zystektomie

CREATED BY

Bettina Ergün

PREVIEW

Protocol

NAME

Gewebesammlung Frischgewebe Prostatektomie

CREATED BY

Bettina Ergün

PREVIEW

VERSION 1

DEC 01, 2023

OPEN ACCESS

Protocol Citation: Bettina Ergün 2023. Tissue processing and freezing after surgery. **protocols.io** https://protocols.io/view/tissue-processing-and-freezing-after-surgery-c5nqy5dw

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

Created: Nov 29, 2023

Last Modified: Dec 01, 2023

PROTOCOL integer ID: 91568

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

1h

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

2

	Gewebe#	Organ

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.

Cryo tubes should be labelled as follows and documented in the N2 binder:
Tissue ID,T1/T2 resp. N1/N2...
No. of Pieces
Date

6 Freeze samples in Mr. Frosty overnight.

Documentation

7 Store patient data and enter the corresponding liquid number:
https://charitede.sharepoint.com/:x:/r/sites/UroForsch/_layouts/15/doc2.aspx?sourcedoc=%7B1282209D-5A7C-4998-A577-145386116E54%7D&file=Biobank_Gewebe_ab01012019.xlsx&action=default&mobileredirect=true

8 Enter the corresponding tissue number in the liquid collection list:
https://charitede.sharepoint.com/:x:/r/sites/UroForsch/_layouts/15/Doc.aspx?sourcedoc=%7BCE8CD395-BFB0-4B2C-8220-37FB802726A7%7D&file=Biobanking-lfdListe_ab190311.xlsx&action=default&mobileredirect=true

9 *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*