COLLECTION OF SAMPLES FOR TRANSMISSION ELECTRON MICROSCOPY

Before you start, visit the EM laboratory in order to acquire the required number of fixative stock solutions. EM laboratory also provides razor blades and wax plates (see details below).

The fixative stock solutions include:

1. Plastic syringe containing 1 ml (or 0.5 ml) glutaraldehyde, concentration 25 % (store at +4 °C)
2. Sample bottle containing 4 ml (or 2 ml) S-collidin-HCl buffer, concentration 0.2 mol/L, pH 7.4 (store at +20 °C)

Prepare the fixative **immediately before use** by injecting the glutaraldehyde from the syringe into the buffer in the sample bottle. Mix well.

The fixative now contains: 5 % glutaraldehyde in 0.16 mol/L S-collidin-HCl buffer, pH 7.4

Cut the sample tissue **immediately** after removal from the animal, under a small volume of the fixative, by ripping movements with a razor blade on a wax plate, into pieces or slices of maximum 1 mm thickness and put them immediately into the fixative in the sample bottle. Make sure that all pieces are under the fixative surface. Close the cap and mark **with a pencil** the identification code on the bottle label. The samples in the fixative can be stored at +20 °C for several weeks (although extended storage is not recommended).

Fill in the appropriate information of the experimental design in the sample description form and bring or send the sample bottles and the form into the EM laboratory in the address Medisiina C building 2nd floor, Kiinamyllynkatu 10, Turku.

Additional information from:

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