

PurifyLater Tissue Stabilizer

for convenient and safe storage of human or animal tissue samples and protection of DNA and RNA against degradation

Product no. (volume)	030-002-100 (100 ml)	030-002-500 (500 ml)
Kit contents	Tissue Stabilizer Solution	

Handling protocol for PurifyLater Tissue Stabilizer

PurifyLater Tissue Stabilizer is a non-toxic reagent for long-term stabilization of human or animal tissue as described in this protocol. It cannot be used for stabilization of bacteria or cultured cells.

PurifyLater Tissue Stabilizer does not require any special treatment for disposal.

Materials and equipment needed:

- Vortexer
- One reaction tube (1.5 ml) per sample for up to 50 mg of tissue (small scale)
- One 50 ml tube for higher amounts of tissue (large scale)
- Recommended for cutting of tissue: corrosion-free BioEcho Ceramic Blade Scalpel, e. g., product no. 050-002-001

Preparations before starting

- Small scale: Fill 1.5 ml reaction tube with Tissue stabilizer solution (1 mg of tissue per 10 µl of stabilizer solution).
- Large scale: Fill 50 ml reaction tube with 5 ml Tissue Stabilizer Solution per gram of tissue.

PROTOCOL 1: Small scale

1. Cut tissue sample from donor using a corrosion-free scalpel and transfer sample immediately into the stabilizer solution. Make sure that the sample is completely submerged. If sample pieces stick to the tube wall, vortex to transfer them into the liquid.
2. Store samples at least 4h or (recommended) over night at 4°C to ensure complete diffusion of the stabilizing liquid into the tissue.
3. Remove stabilizer solution by pipetting the supernatant and store sample as described below.
4. Stabilized samples can be stored for an indefinite time at -20°C or -80°C or up to 4 weeks at 4°C.
5. For later purification, use the EchoLUTION Tissue DNA Micro Kit (e. g., product no. 010-002-050). If using another DNA purification kit, follow the instructions according to the kit manufacturer's protocol. **Note:** The nucleic acid recovery from PurifyLater stabilized samples and fresh tissue is comparable.

PROTOCOL 2: Large scale

1. Cut tissue sample(s) into pieces not thicker than 0.5 cm by using a corrosion-free scalpel and transfer sample immediately into the stabilizer solution. Make sure that the sample is completely submerged. If sample pieces stick to the tube wall, vortex to transfer them into the liquid.
2. Store samples at least 4h or (recommended) over night at 4°C to ensure complete diffusion of the stabilizing liquid into the tissue.
3. Remove stabilizer solution by pipetting the supernatant and store sample as described below.
4. Stabilized samples can be stored for an indefinite time at -20°C or -80°C or up to 4 weeks at 4°C.
6. For later purification, use the EchoLUTION Tissue DNA Micro Kit (e. g., product no. 010-002-050). If using another DNA purification kit, follow the instructions according to the kit manufacturer's protocol. **Note:** The nucleic acid recovery from PurifyLater stabilized samples and fresh tissue is comparable.

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