Universität Heidelberg- IBF/ Biotechnologie Labor
Frank Zimmermann, INF 347, D-69120 Heidelberg, Phone: +49-6221-546883, Fax: +49-6221-545705,
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DNA Praepertaion

Please use the following guideline when submitting DNA for microinjection:

The DNA must be provided purified for injection .

DNA isolation: With glass milk, electroelution, or DE81 ion exchange paper, Qiagen or GeneClean.
Avoid phenol and ethidium bromide: if necessary, include several EtOH precipitations.

purification: Small DNA fragments can be filtered to remove particles (0,22 µm sterile Millex-GV Millipore Cat. # SLGV 025 BS)

Large DNA fragments (> 5 kb) should be cleared by centrifugation (2x15 min in minifuge, discard bottom 20%) or a CsCl gradient followed by extensive dialysis.

Final concentration: 30 µg DNA / ml in: 5 mM Tris (pH 7.4), 0.1 mM EDTA

Minimum amount: 200 µl of DNA

TE Buffer: send also an aliquot of 1500 µl TE Buffer (conc. see above) to the TG-Lab.

"Photo proof": provide a Polaroid gel photo showing ≈ 40ng EtdBr-stained DNA (after the last purification) next to a molecular weight standard.

Vial: Eppendorf tube (rinsed and autoclaved),

Label: name, date, construct # (not on the top), concentration (under protective tape)

Long term storage: at -20°C (or use siliconized Eppendorf tubes)

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2. Delivery of DNA

Before delivery of the DNA, please get in contact with Frank Zimmermann
(IBF 1. floor, room 1.59, Tel.: 54-6883)

Items to deliver:
- the DNA (preparation see above)
- 1,5 ml TE Buffer
- attached application form (2 copies, filled in and signed)

3.External cooperator

If wanted, tail biopsies can be taken at the IBF. The tails will then be sent on dry ice to the responsible person, given on the application form.
The results regarding positive animals should be sent to the IBF Transgenic Core latest four weeks after delivery of the tails. In case no results have been submitted within this period, the animals will be sent to the given address directly.