

## **SOP: Preparation of a drug premix of ketamine 10% and xylazine 2% for injectable anesthesia in laboratory rodents**

### **General information**

The preparation of the drug premix can only be carried out for quantities to be administered on the same day. Follow the instructions below for manufacture and disposal.

### **Manufacturing instruction**

The premix is prepared using Ketamine injection solution (10%), xylazine injection solution (2%) as well as PBS or NaCl for dilution. The dosage corresponds the dosage given in the respective approved animal experiment license.

When preparing the injection solution, the respective solution component must be removed from the original packaging using a sterile cannula. The mixture must be prepared and stored in a sterile container (tube or similar).

Before use sufficient mixing of the components must be ensured.

### **Storage**

Storage of the drug premix is only permitted until the end of the day of manufacture. The premix must be stored in a leak-proof container (tube or similar) and must be labelled with the following information:

- Date of manufacture
- Description of the premixture: Ketamin / Xylazin ( 10 / 1 mg/ml) in NaCl/PBS
- Working group
- Name of scientist
- Project Number

### **Documentation of the application**

The quantities of ketamine and xylazine used to produce the premixture must be documented in the table *"Medicine/Opioid release and use documentation in animal experiments"*. The quantity applied for each animal has to be recorded.

### **Disposal**

Unneeded residual amounts of the drug premix must be disposed of after use and at the latest by the end of the same day. For this purpose, the injection solution is emptied into absorbent materials (e.g. cellulose) and disposed of with the household waste.

*Disposal via waste water is not permitted!*