



PRECELLYS EMULSION KIT

CAT# D34200.10 EA

User Guide

/ CONTEXT

The Precellys Emulsion Kit provides a simple, reliable and rapid method to generate injectable antigen or antibody emulsions in the context of immunological research.

The Precellys Emulsion kit is based on the use of specifically designed tubes for Minilys and Precellys Evolution homogenizers. The use of these tubes combined to the power of Minilys or Precellys Evolution ensures the obtention of a perfect emulsion. This process ensures a perfect efficiency and reproducibility in the generation of the emulsion.

The Precellys Emulsion device, in which the emulsion is made, is designed to ensure a compatibility with the injection syringe. The transfer from the Precellys Emulsion device to the syringe is therefore very easy to operate and allows a transfer without loss of material and without breaking the emulsion. This allows reagent savings.

Emulsions can also be kept at +4°C for 4 weeks if not used completely.

/ KIT CONTENT

- Each kit pack cat# D34200.10 ea contains 10 emulsion devices.
- Each emulsion device is composed of the tube + cap allowing to generate the emulsion and a specific plunger to transfer the emulsion from the emulsion tube to the syringe used for the final injection of the emulsion.
- Each emulsion tube and plunger are autoclaved and placed in an hermetic package.

/ MATERIAL

- The use of Precellys Emulsion kit requires
 - centrifuge
 - Ice bucket with ice
 - Pipettes
 - Minilys or Precellys Evolution with the 7mL tube adapter/holder
 - Cold PBS without Ca²⁺ or Mg²⁺
 - Freuds adjuvant complete or incomplete, Montanide, or an other adjuvant used for emulsion
 - Syringes, we recommend to use Injekt⁺-F 1ml, B.Braun cat# 9166017V



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/ PROCEDURE

- Before starting, all material and reagents must be placed on ice
- Open the Emulsion tube
- Place 1 volume of each reagent in the tube (max 4mL of each)
- Close the tube with the cap
- Mix the reagents by inverting the tube and then by shaking vigorously the tube for about 10sec
- Place the tube on the Minilys or Precellys Evolution
- Run the following protocol on the instrument: 5000rpm (max speed on Minilys) for 60sec
- Once the run is finished, remove the tube from the instrument and place it on ice for 3min
- Repeat the run on the instrument following the same protocol: 5000rpm (max speed on Minilys) for 60sec
- Take the tube and remove the cap
- Inset the specific plunger in the tube and push it until it reaches the emulsion
- Remove the lock of the tube by twisting the extremity
- Take the injection syringe and remove its plunger
- Attach the syringe equipped with the needle to the extremity of the Emulsion Tube thanks to the dedicated locks present on the tube
- Transfer the emulsion from the Emulsion tube to the syringe by pushing on the plunger. To avoid emulsion loss, stop to the 0,15 graduation of the syringe that corresponds to 1mL transferred in the injection syringe
- Separate the injection syringe from the emulsion tube
- Insert the plunger in the injection syringe
- Repeat the operation for the rest of the emulsion present in the emulsion tube.
- Inject the emulsion to the animal model or store the syringe containing the emulsion in the fridge (+4°C for up to 4 weeks)

Watch the tutorial video: https://youtu.be/uFl6hY-j1_I