



Tissue-Clearing Reagent CUBIC-P [for Animals]

Product Information

Product No. : T3782

Description

This product is supplied as a ready-to-use solution for animal tissue-clearing. CUBIC-P (Product No. T3782) is used for mouse perfusion. This product makes organs clear efficiently. Both Tissue Clearing Reagents CUBIC-L (Product No. T3740) and CUBIC-R+ (Product No. T3741) are also required for a series of procedures.

Storage

The product can be stored at room temperature.

Precautions

Precipitations sometimes arise, but they do not affect the quality of clearing. Samples may swell but detailed structures are preserved.



Directions for Use

The efficient clearing protocol of adult mouse (more than 6-week-old) organs

| Process | Reagent | Temp. | Time | Notes |
|---------------|-----------------------|-------|-------------|-------------------------------------------------------|
| Sacrifice | Pentobarbital | | | Overdose of pentobarbital |
| | 15mL PBS | | | After perfusion of CUBIC-P, the organs are dissected. |
| | 20mL 4% PFA in PBS | | | |
| | 15mL PBS | | | |
| | 100mL CUBIC-P | | | |
| Delipidation | CUBIC-L | 37 °C | 3 – 7 days* | Shake gently (same in following steps). |
| Wash | PBS | RT | 1 day | |
| (Staining) | PI in PB* | RT | 5 – 7 days | Optional |
| (Wash) | PBS | RT | 1 day | Optional |
| Pre-treatment | 50% CUBIC-R+ | RT | 1 day | 1:1 mixture of water and CUBIC-R+ |
| RI matching | CUBIC-R+ | RT | 1 – 2 days | |

*10 µg/mL Propidium iodide (PI) in 0.1 M Phosphate buffer (PB) pH 7.4 containing 0.5 M NaCl

**The experimental protocol mentioned here is only provided as examples. Please adjust the experimental conditions based on the experimental sample and the purpose of the experiment.