

# [Protocol 1.09] Preparation of stemMACS/UPPS medium

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## Protocol 1.09 Preparation of stemMACS/UPPS medium

Version: 1.0 (23.03.2023)

### Media and Reagents:

StemMACS™ iPS-Brew XF, human (miltenyibiotec #130-104-368)

- StemMACS™ iPS-Brew XF, Basal Medium, 500 mL
- StemMACS™ iPS Brew XF, 50x Supplement, 10 mL

CHIR 99021 (tocris #4423)

IWR-1-endo (selleck #S7086)

### Materials and Equipment:

50 ml pipettes

50 ml Falcon tube

### 1. Introduction and Purpose

This protocol describes how to prepare and aliquot stemMACS/UPPS media for chimpanzee iPSCs

### 2. Procedure - Aliquot

1. Thaw the StemMACS™ iPS Brew XF, 50x Supplement at 4°C overnight

**Note:** Do not thaw it in the water bath **critical for growth factors**

2. Pipette 10 ml of the StemMACS™ iPS Brew XF, 50x Supplement into 500 ml of StemMACS™ iPS-Brew XF, Basal Medium

3. Close the lid tightly and invert slowly the bottle

4. Aliquote 45 ml of StemMACS™ iPS Brew XF into a labeled 50 ml Falcon tube (x11)

**Note:** Label should contain product name/volume of the medium/LOT & CAT number/date of aliquot/who aliquoted

5. Store aliquots at -20°C

### 3. Procedure - Use

1. Thaw one aliquot at 4°C overnight

**Note:** Do not thaw it in the water bath **critical for growth factors**

**Note:** Label when the aliquot is thawed with the name of person who thawed

2. Pipette 4.5 µl of IWR-1-endo (1:10,000 = final concentration of 1 µM) and 2.25 µl of CHIR 99021 (1:20,000 = final concentration of 0.5 µM) into 45 ml of StemMACS™ iPS Brew XF

**Note:** Label when the aliquot is opened with the name of person who opened

**Note:** Label "+UPPS" that the medium is supplemented with IWR-1-endo & CHIR 99021 with the name of person who supplemented

**Note: DO NOT FREEZE AGAIN!**