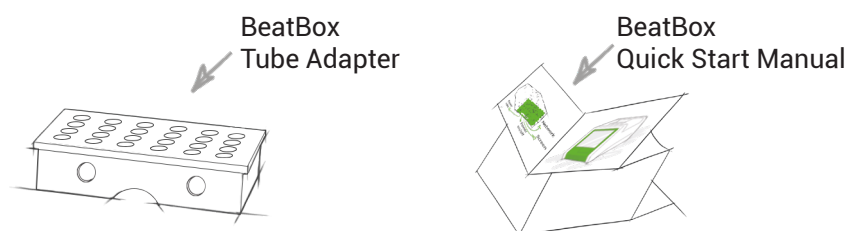


KIT CONTENT



BEATBOX ACCESSORIES



Method

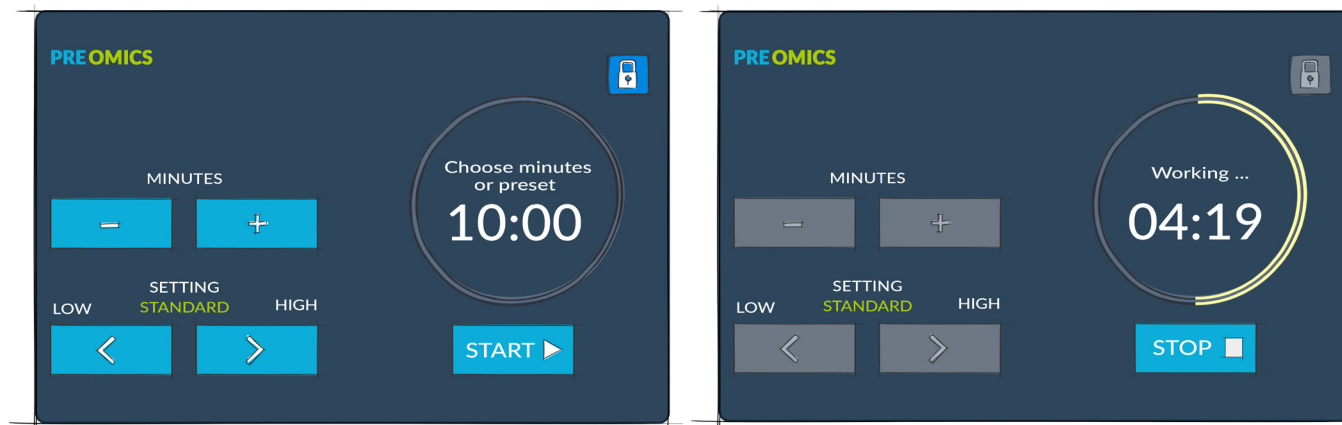
For the detailed description and graphical representation of the handling of the BeatBox, please refer to the BeatBox Quick Start Manual 24x.

1. TUBE PREPARATION *NOTE1*

- 1.1. Carefully open the **BEATBOX TUBE**.
- 1.2. Add wet mammalian **TISSUE SAMPLE** (5-50 mg of wet-weight) to tubes. *NOTE2*
- 1.3. Add 300-1000 μ L of lysis buffer to each **BEATBOX TUBE**. Lysis buffer can be PreOmics' LYSE or RIPA buffer. (For SP3 kit family: Please contact info@preomics.com) *NOTE3*
- 1.4. Close the **BEATBOX TUBE** and put it into the **BEATBOX TUBE ADAPTER**.

2. BEATBOX HOMOGENIZATION

- 2.1. Turn on the BeatBox and insert the **BEATBOX TUBE ADAPTER** into the GARAGE.
- 2.2. Use default configurations (**SETTING**: STANDARD; **MINUTES**: 10 minutes) or select optimal lysis conditions for your tissue sample by adjusting **SETTING** and **MINUTES** in the BEATBOX menu:



BeatBox screen for settings

BeatBox screen during processing

SETTING: You can choose between LOW, STANDARD or HIGH. The power level increases from LOW to HIGH.

We recommend STANDARD settings for mammalian tissues (e.g. brain, liver or heart).

MINUTES: You can choose between 1 and 10 minutes (30 sec increments).

- 2.3. Insert the GARAGE and press START. The BeatBox homogenization will apply the settings you have selected.
- 2.4. After the BeatBox run is completed, remove the GARAGE from the instrument, and the **BEATBOX TUBES** from the **BEATBOX TUBE ADAPTER**. **NOTE4**
- 2.5. Spin down the **BEATBOX TUBES** (1500 rcf; 30 – 60 sec).

3. CONTINUE WITH PREOMICS' KIT FAMILY

- 3.1. Determine the protein concentration of the homogenized TISSUE SAMPLE.
- 3.2. When iST LYSE buffer is used, continue with the iST sample preparation using up to 100 µg of extracted protein (if the volume is < 50 µL, fill up to 50 µL with LYSE buffer).
Continue with step "2. DIGEST" and follow protocol.
- 3.3. When RIPA buffer is used, continue with the iST sample preparation using up to 100 µg of extracted protein.
Add 2-fold concentrated iST LYSE buffer in ratio 1:1 (v/v) with tissue homogenate (if the volume is < 50 µL, fill up to 50 µL with iST LYSE buffer). NOTE: 2-fold concentrated iST LYSE buffer is provided in addition to the iST kit family.
Continue with step "2. DIGEST" and follow protocol.

NOTE1 **SINGLE USE ONLY:** Kits components cannot be re-used.

When using BeatBox homogenization for other sample types, please contact info@preomics.com.

NOTE2 Allow deep-frozen and frozen tissue to thaw on ice for 5-10 minutes.

NOTE3 Buffer to sample ratio should be adjusted individually to create optimal conditions.

Lower buffer volumes down to 100 µL are possible but recovering the full sample volume may be difficult. In case lower lysis buffer volume is used, make sure that the TISSUE SAMPLE is covered with buffer.

NOTE4 If intact tissue is still visible, please repeat BeatBox run (steps 2.1-2.6).