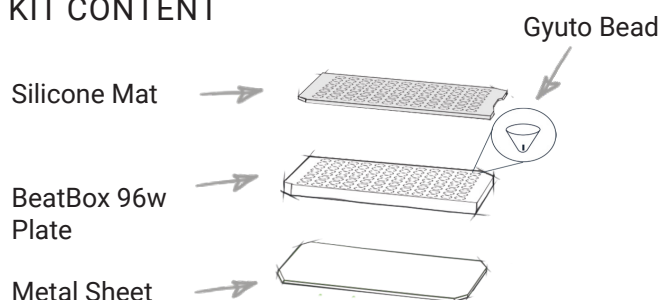
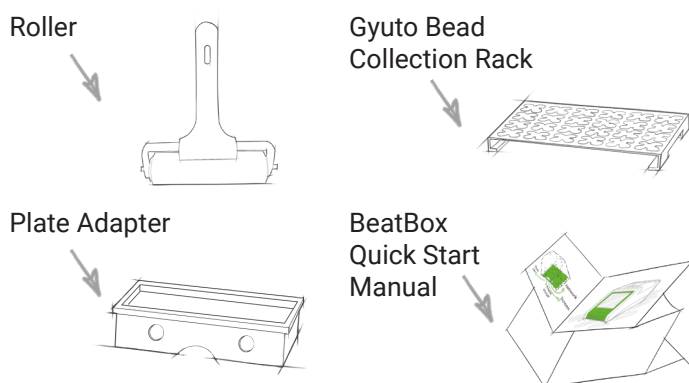


KIT CONTENT



BEATBOX ACCESSORIES



Pre-Requisites

Common lab equipment is required for the sample preparation.

Equipment	Quantity and Description
TISSUE SAMPLE	Fresh or frozen tissue. For other sample types contact PreOmics for adapted protocols.
LYSIS BUFFER	iST LYSER BUFFER from PreOmics' iST kits. For SP3-iST kits, contact info@preomics.com for an adapted protocol.
CENTRIFUGE	Swing-bucket centrifuge for 96-well plate and adequate counterweight are required for spin-down of homogenate.

Method

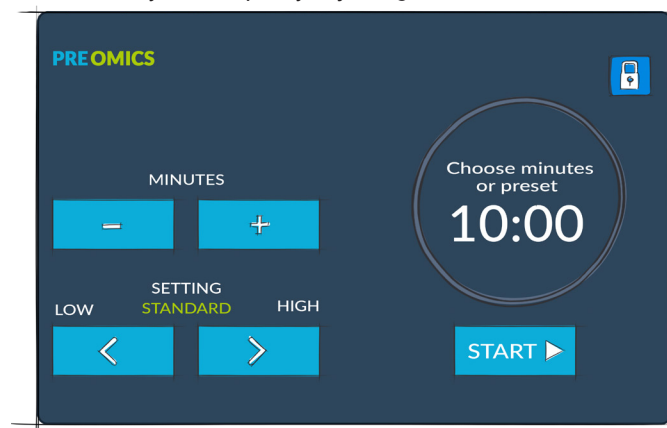
For a detailed description and graphical representation on how to use the BeatBox, please refer to the BeatBox Quick Start Manual 96x.

1. PLATE PREPARATION ^{*NOTE1*}

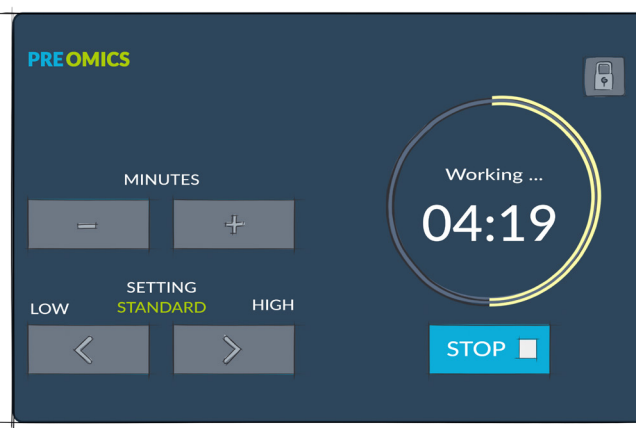
- 1.1. Remove the **SILICONE MAT** from the **BEATBOX 96w PLATE** while keeping the **METAL SHEET** attached to the base of the **BEATBOX 96w PLATE**.
- 1.2. Add **TISSUE SAMPLE** (1–5 mg wet-weight sample) into the well of the **BEATBOX 96w PLATE**.. ^{*NOTE2*}
- 1.3. Add 100 µL of PreOmics' **LYSE BUFFER** to each well of the **BEATBOX 96w PLATE**.
Make sure that **TISSUE SAMPLE** is covered with **LYSE BUFFER**.
- 1.4. Cover the **BEATBOX 96w PLATE** with the **SILICONE MAT** and make sure that the plate is properly closed by using the **ROLLER**. Remove the **METAL SHEET** from the base of the **BEATBOX 96w PLATE**.

2. BEATBOX LYSIS

- 2.1. Turn on the BeatBox, place the **BEATBOX 96w PLATE** on the PLATE ADAPTER and insert the PLATE and ADAPTER assembly into the GARAGE.
- 2.2 Use default configurations (SETTING: standard: MINUTES: 10 minutes) or optimize homogenization conditions for your 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, HIGH. The power level increases from LOW to HIGH.
MINUTES: You can choose between 1 - 10 minutes (30 sec increments).

- 2.3. Insert the GARAGE into the BeatBox and press START.
- 2.4. After the BeatBox run is completed, remove the GARAGE from the instrument, and the **BEATBOX 96w PLATE** from the ADAPTER.
- 2.5. Spin down the **BEATBOX 96w PLATE** (500 rcf; 30 sec – 60 sec).
- 2.6. Place the **BEATBOX 96w PLATE** on the GYUTO BEAD COLLECTION RACK and remove the **SILICONE MAT**. **NOTE3**
- 2.7. Transfer the homogenate into a new plate or tube for subsequent processing or analysis workflows.

3. CONTINUE WITH PREOMICS' KITS

- 3.1. Determine the protein concentration of the homogenate.
- 3.2. Continue with PreOmics' kits:
 - For iST kits, 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). Start with step "2. DIGEST" and follow the protocol.
 - For SP3-iST kits: Please contact info@preomics.com.

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

NOTE2 For most mammalian tissue types, 1–5 mg of wet-weight tissue sample is equivalent to 100–500 µg protein starting amount. For sample handling, plastic tweezers are preferable to metal tweezers to avoid sticking of the Gyuto beads to the tweezer. Keep tissue sample on ice or at RT and make sure that the tissue sample is thawed before adding PreOmics LYSE buffer.

NOTE3 If intact tissue is visible, please repeat BeatBox run (steps 2.1-2.6).