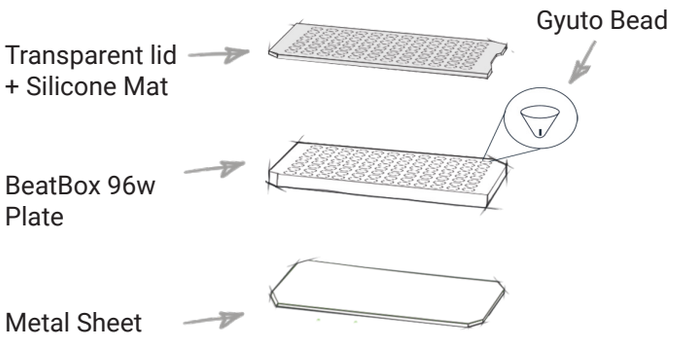
PREOMICS

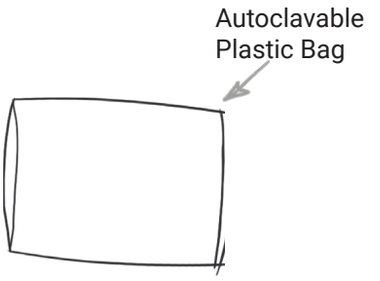
BeatBox Tissue Kit **96x**

Mammalian tissue (fresh-frozen)

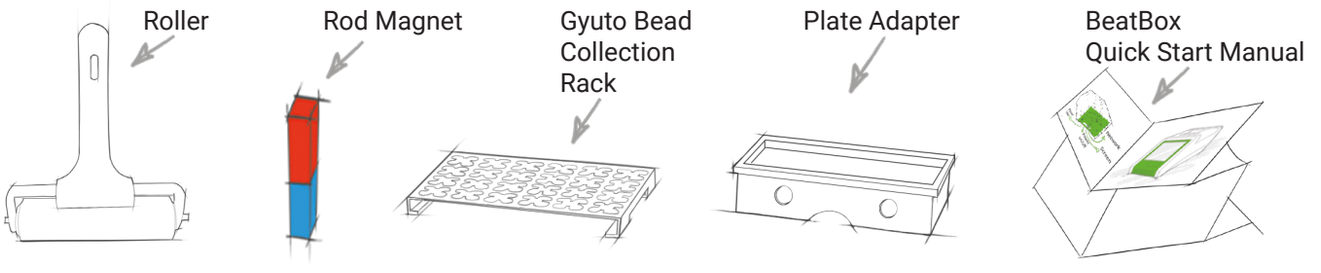
BeatBox Tissue www.preomics.com

KIT CONTENT





BEATBOX ACCESSORIES



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 **TRANSPARENT LID** and 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 the **TRANSPARENT LID** and make sure that the plate is properly closed. Remove the **METAL SHEET** from the base of the **BEATBOX 96w PLATE**.

Want to know more? Visit the PreOmics website to learn more about BeatBox

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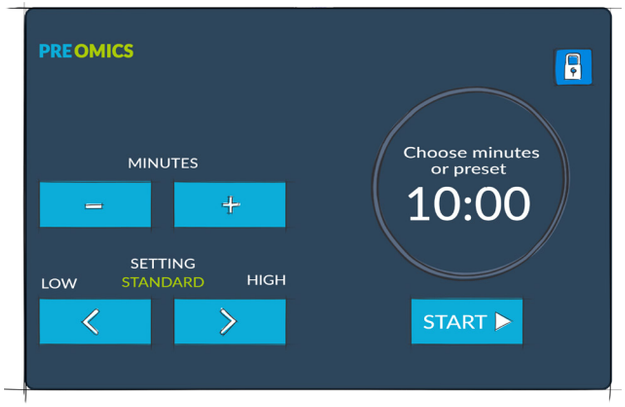
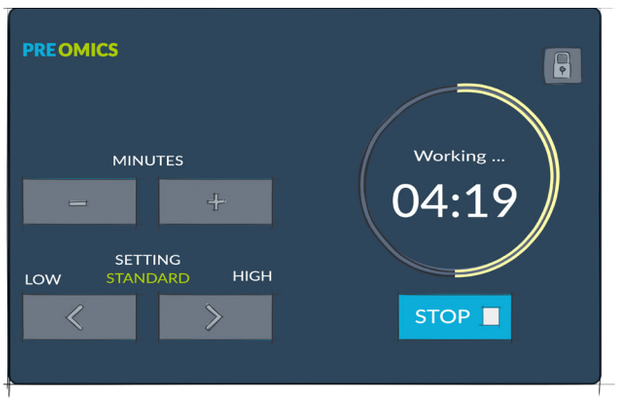
2. BEATBOX HOMOGENIZATION

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 **TRANSPARENT LID** and 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 protocol.
- For SP3-iST kits: Please contact info@preomics.com.

NOTE1 **SINGLE USE ONLY:** Kits components cannot be re-used.
When using the BeatBox for other sample types, please contact info@preomics.com.

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 thwaed before adding PreOmics LYSE buffer.

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