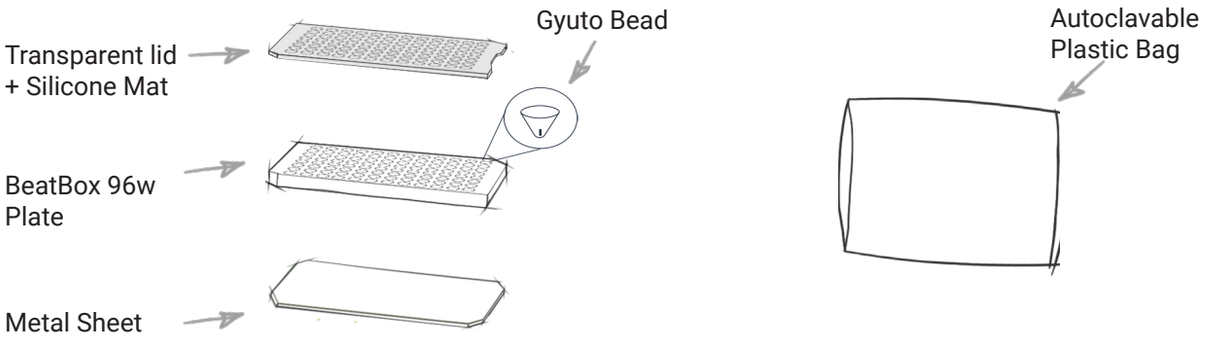
PREOMICS

BeatBox Tissue Kit **96x**

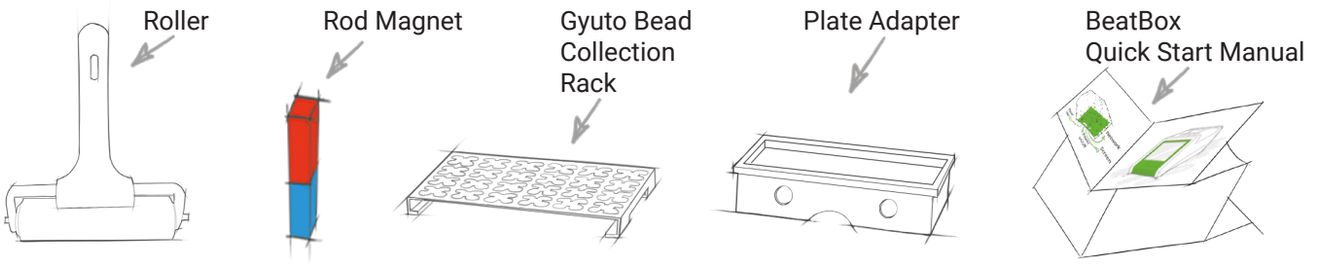
Cell lysis protocol - Eucaryotic and procaryotic cells

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. Resuspend CELL SAMPLE in 1x PBS buffer. Transfer up to 50 µL of cell suspension (equivalent to 100 µg protein) into the well of the **BEATBOX 96w PLATE**. *NOTE2*

1.3. Add PreOmics LYSE buffer to the cell suspension as follows:

- For <= 10 µL cell suspension, add 100 µL of PreOmics LYSE.
- For 11 µL - 50 µL cell suspension, add 50 µL of 2-fold concentrated PreOmics LYSE and fill up to 100 µL with LC-MS water.

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

PreOmics GmbH
Martinsried | Germany

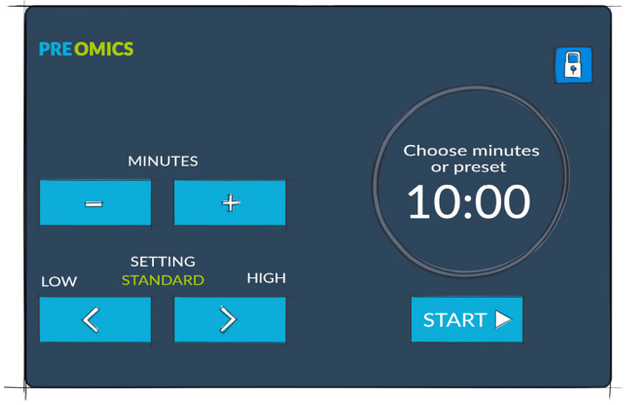
PreOmics Inc
New York | USA

www.preomics.com
beatboxsupport@preomics.com

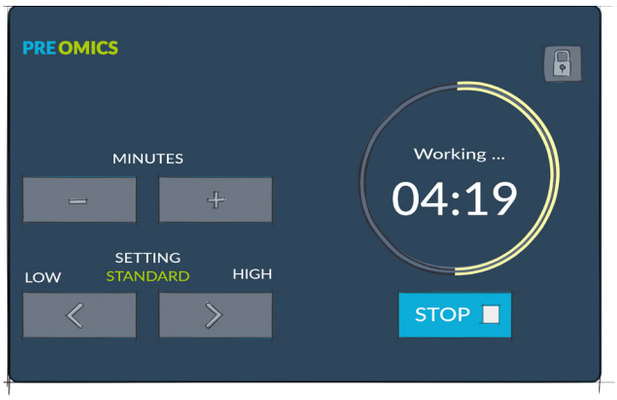
2. BEATBOX LYSIS

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 lysis conditions for your samples 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 - 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 lysate into a new plate or tube for subsequent processing or analysis workflows.

3. CONTINUE WITH PREOMICS' KITS

3.1. Optional: Determine the protein concentration of the lysate.

3.2. Continue with PreOmics' kits:

- For iST kits, continue with the iST sample preparation workflow using up to 100 µg of extracted protein. 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 Various cell types can be processed on the BeatBox including mammalian, bacterial and yeast cells. Protein content varies considerably across distinct cell types and we recommend carrying out a protein concentration assay after the lysis step. A short overview of raw material amounts, as well as alternative buffers compatible with the iST workflow can be found in the FAQ (see www.preomics.com/resources).

NOTE3 In case of incomplete cell lysis, please repeat the BeatBox run (steps 2.1-2.6).