

E. coli Cell Lysis using 24-tip horn

Example protocols and results are based on customer feedback.

**Protocol:**

Sample Type: *E. coli* cells

Sample Details: OD600 = 5 to 120

Lysis Buffer: 0.1 M KPi buffer

Sample Volume: Variable: 600–3000 μ l

Amplitude Setting: 45%

Sonication Pulse Rate: 1 second ON/OFF

Sonication ON Time: 4–5 min

Samples were processed in custom Aluminum 24-well plates. Smaller wells are used for smaller volumes.

Customer Notes:

We use the Q500 with 24-tip horn to lyse *E. coli* cells and obtain cell-free lysate for lysate reactions. This equipment has greatly improved our workflow as we can process 24 different samples simultaneously. Previously, we used a single microtip, which was time-consuming. The 24-tip horn has revolutionized our laboratory workflow and made our work much easier and faster.