

ReadiUse™ Mammalian Cell Lysis Buffer *5X*

| Ordering Information | Storage Conditions |
|-------------------------------|-------------------------------------------------------------------------|
| Product Number: 20012 (10 mL) | Store at 2-8 °C Expiration date is 6 months from the date of receipt |

Typical Assay Protocol

1. Warm up ReadiUse™ mammalian cell lysis buffer *5X* at room temperature before use.
2. Prepare 1X ReadiUse™ mammalian cell lysis buffer by adding **1 ml** of 5X ReadiUse™ mammalian cell lysis buffer into **4 ml** of Mili-Q water, and mix them well.
3. The 1X ReadiUse™ mammalian cell lysis buffer (from Step 2) now is ready to use.
4. Treat cells as desired, wash plate with PBS to remove residual media.
5. The following table is the suggested volume for lysis adherent cells.

| Plate | 384-well | 96-well | 48-well | 24-well | 12-well | 6-well | 100 cm ² |
|--------|----------|---------|---------|---------|---------|--------|---------------------|
| Volume | 20 µL | 50 µL | 100 µL | 150 µL | 200 µL | 300 µL | 800 µL |

6. Lyse non-adherent cells by adding about 100 µL of 1X ReadiUse™ mammalian cell lysis buffer to 1-5X10⁶ cell pellet.
7. Incubate at room temperature for 10-20 min.
8. Use the cell lysate directly or centrifuge it at 1500 rpm for 5 minutes, use the supernatant for
9. further biochemical analysis.
10. The cell lysis buffer can also be used for lyse bacterial or plant tissues. See the appendix for details.

Appendix: Test Sample Preparations Using 1X Cell Lysis Buffer

1. Plant Cell Samples:
Homogenize leave with the lysis buffer at 200 mg/mL, and centrifuge at 2500 rpm for 5-10 minutes, use the supernatant for tests.
2. Bacterial Cell Samples:
Collect bacterial cells by centrifugation ((10,000 g, 0°C, 15 min). Use about 100 to 10 million cells/mL lysis buffer, homogenize the sample. Centrifuge at 2500 rpm for 5 minutes, and use the supernatant for tests.
3. Tissue Samples:
Weigh ~20 mg tissue, wash with cold PBS. Homogenize with 400 µl of lysis buffer in a micro-centrifuge tube. Centrifuge at 2500 rpm for 5-10 minutes, use the supernatant for the assay.

Disclaimer: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact our technical service representative for more information.