More than 0.5 g of tissue or 5.0 x 10^7 cells.

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Homogenize tissue samples with a tight Potter–Elvehjem homogenizer (1000 rpm). This step can be omitted for culture cells.

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Nitrogen cavitation (400-800 psi, 15 min, 4 ℃).

↓

Centrifuge the homogenate (10,000g, 10 min, 4 ℃).

↓

Centrifuge the supernatant (100,000g, 40 min, 4 ℃).

↓

The pellet and supernatant are crude membrane and cytosolic fractions, respectively. Dissolve the pellet and centrifuge it with 38w/v% sucrose solution (100,000g with swing rotor, 40 min, 4 ℃).

↓

Collect turbid layer, and centrifuge it (100,000g, 40 min, 4 ℃).

↓

Dissolve the pellet (plasma membrane fraction), and store at -80 ℃.