Whole protein extraction from tissues

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Abstract

This protocol is for whole protein extraction from tissues like kidney, liver ,musscle etc. Histone proteins which are tightly twisted on genomic DNA can also be extracted with this protocol.

Before start

ULTRA-TURRAX Dispenser T10 basis S25 (IKA)
Rotating mixer
Bench top centrifuge

Protocol

Step 1.
Pre-cool lysis buffer on ice. Add protease inhibitors just before using.

Step 2.
Add 10 fold lysis buffer to tissues (1ml lysis buffer / 100mg tissue)

> ● NOTES
> **Vivian Liu** 06 Aug 2015
> RIPA lysis buffer (strong) recipe

Step 3.
Homogenize tissues with dispenser (working time 10s / rest time 20s, repeat 5 times) until no visible tissue blocks.

Step 4.
Mix samples on a rotating mixer at 4 °C for 2h.

Step 5.
Spin @ 16,000g, 10min, 4°C. If necessary, centrifuge again.

Step 6.
Save supernatant. Determine protein conc. .

Step 7.
Make aliquots and store in -80°C.