

Chromatin Immunoprecipitation Lysis Buffer Sets

Vivian Liu

Abstract

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Guidelines

Ingredients stocks can be batch made and sterilize by filtering through 0.22 μ m filter. Lysis buffer sets are recommended to make freshly. If you are doing ChIP routinely, you can also batch make lysis buffer sets, filter through 0.22 μ m filter and store @ 4 °C, protecting from light (sodium deoxycholate is light sensitive). Just remember, add protease inhibitors just before using.

Protocol

Lysis Buffer I

Step 1.

| Lysis Buffer 1 | Final | Stock | 5ml | 10ml | 20ml | 50m | 100ml |
|-------------------|-------|-------|-------|------|------|-------|-------|
| HEPES-NaOH,PH 7.9 | 50mM | 1M | 0.25 | 0.5 | 1 | 2.5 | 5 |
| NaCl | 140mM | 5M | 0.14 | 0.28 | 0.56 | 1.4 | 2.8 |
| EDTA | 1mM | 500mM | 0.01 | 0.02 | 0.04 | 0.1 | 0.2 |
| Glycerol | 10% | 50% | 1 | 2 | 4 | 10 | 20 |
| NP-40 | 0.50% | 10% | 0.25 | 0.5 | 1 | 2.5 | 5 |
| TritonX-100 | 0.25% | 10% | 0.125 | 0.25 | 0.5 | 1.25 | 2.5 |
| ddH2O | | | 3.225 | 6.45 | 12.9 | 32.25 | 64.5 |

Mix ingredients as indicated and add protease inhibitors just before using.

Lysis Buffer II

Step 2.

| Lysis Buffer 2 | Final | Stock | 5ml | 10ml | 20ml | 50m | 100ml |
|----------------|-------|-------|-------|------|-------|-------|-------|
| Tris-HCl,PH8.0 | 10mM | 1M | 0.05 | 0.1 | 0.2 | 0.5 | 1 |
| NaCl | 200mM | 5M | 0.2 | 0.4 | 0.8 | 2 | 4 |
| EDTA | 1.5mM | 0.5M | 0.015 | 0.03 | 0.06 | 0.15 | 0.3 |
| ddH2O | | | 4.735 | 9.47 | 18.94 | 47.35 | 94.7 |

Mix ingredients as indicated and add protease inhibitors just before using.

Lysis Buffer III

Step 3.

| Lysis Buffer 3 | Final | Stock | 5ml | 10ml | 20ml | 50m |
|---------------------|-------|-------|-------|------|-------|-------|
| Tris-HCl, PH8.0 | 10mM | 1M | 0.05 | 0.1 | 0.2 | 0.5 |
| NaCl | 100mM | 5M | 0.1 | 0.2 | 0.4 | 1 |
| EDTA | 1.5mM | 0.5M | 0.015 | 0.03 | 0.06 | 0.15 |
| Na-Deoxycholate | 0.10% | 5% | 0.1 | 0.2 | 0.4 | 1 |
| Na-Lauroylsarcosine | 0.50% | 25% | 0.1 | 0.2 | 0.4 | 1 |
| ddH ₂ O | | | 4.635 | 9.27 | 18.54 | 46.35 |

Mix ingredients as indicated and add protease inhibitors just before using.