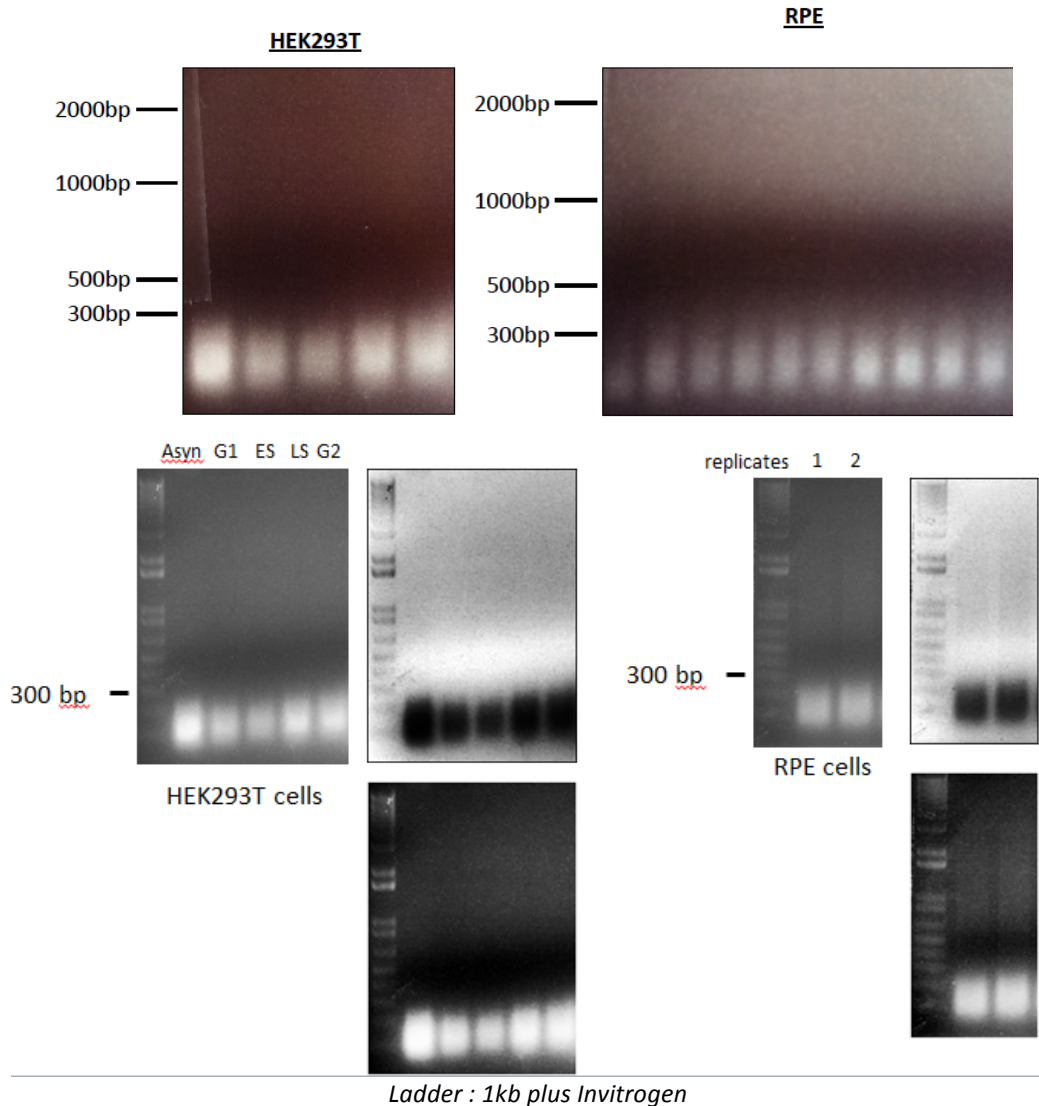


Human Cell Line Chromatin Prep

Example protocols and results are based on customer feedback.



Protocol:

Cell Type: HEK 293T (2) 10cm dishes 70-80% confluent ; RPE (1) 15cm dish 70-80% confluent

Total Sample volume: 300ul

Fixation Time: 1% Formaldehyde, 13 min

Sonicator Amplitude Setting: 70%

Sonication Pulse Rate: 15 seconds On, 45 seconds Off

Total Sonication On Time: 30 min.

Sample Process Temperature: 4°C

Customer Notes :

- Samples were processed in Brand Tech 0.5ml thin walled PCR tubes (Ref. #781312)
- The sonication is highly reproducible from time to time.
- This is a really good sonicator which allows one to sonicate a lot of samples at the same time.
- A cup horn is better than a probe because nothing is in contact with the sample, and it allows to sonicate much smaller volumes.
- Sonication time is needed to get all DNA under 300bp (one nucleosome)
- If more cells are used it will need a longer sonication.
- Tested as low as 50ul sample volumes successfully, > 300ul produces inefficient results for these samples