



Mimetix[®] Protocol: Cell Recovery & Lysis For RNA/Protein Extraction

Cell recovery by trypsinisation

Cells can be removed from the Mimetix scaffold by trypsinisation and gentle agitation. In general, longer incubation times and more rigorous shaking is required compared to a 2D culture.

Please optimise your trypsinisation protocol for each cell type to achieve full cell recovery.

Cell lysis for RNA extraction

1. Add 60 µl RLT (RNeasy kit) per well.
2. Leave the plate on ice for 5 minutes.
3. Shake the plate vigorously for 2 minutes in a plate shaker.
4. Leave the plate on ice for a further 30 minutes.
5. Carry on with the RNA isolation or freeze down the samples for later use (-80°C).

Cell lysis for protein extraction

1. Add 30-60 µl RIPA buffer and incubate for 5 min.
2. Shake the plate vigorously for 2 min.
3. Incubate the plate on ice for 20 min.
4. Centrifuge the samples at 4°C for 10 min and transfer to a clean tube.

Please note: Shaking gives better results than pipetting up and down. Shaking the plate for 1 min or less is not sufficient. Tearing the scaffold off with a pipette tip does not lead to higher protein yield.

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