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Working

RNA isolation for tissue

Version 3

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1 Homogenization in TriZol
Add 1ml **1 ml Trizol** per **30 mg tissue** and homogenize using handheld homogenizer.

2 Incubate at RT for **00:05:00** to allow nucleoprotein complexes to dissociate.

3 Add **200 µl Chloroform** carefully, and vortex to mix well.

4 Spin down at max speed in a chilled centrifuge for **00:15:00** .

5 Carefully remove the top aqueous phase and transfer to a new Eppendorf tube. The interphase and bottom organic phase can be saved for DNA and protein respectively.

6 To the aqueous phase, add **500 µl** of 100% isopropanol, mix by inversion and incubate at **-20 °C** for a minimum for **02:00:00** .

7 Spin down at max speed for **00:30:00** to precipitate RNA.

8 Remove supernatant, and add **1 ml 75% Ethanol** to wash the pellet.

9 Spin down at max speed for **00:15:00** and remove supernatant.

10 Resuspend pellet in appropriate volume of nuclease free water.