Support protocol

Using NucleoSpin® RNA XS for difficult-to-lyse tissue (Rev. 03)

This support protocol can be tried for RNA isolation from difficult-to-lyse tissue, such as cerebellum, heart, or skeletal muscle, using the NucleoSpin® RNA XS kit.

1. Add **120 µL** of **Buffer RA1** to the sample. Homogenize with **NucleoSpin® Filter**, homogenizer, or with a syringe and a needle.

2. Incubate **5 min** at **room-temperature**, then vortex well.

3. Centrifuge at **14,000 x *g*** for **5 min** to remove debris.

4. Carefully transfer supernatant to a new tube. Avoid pipetting pelleted material.

5. Add **90 µL** of **96 - 100% ethanol** to the sample, mix very well by vortexing.

6. Centrifuge at **14,000 x *g*** for **10 min**. Discard as much supernatant as possible.

7. Air-dry.

8. Add **15 µL** of **RNase-free water** to the pellet and resuspend completely.

9. Add **100 µl** of **Buffer RA1**, mix by pipetting and light vortexing.

Continue with step 2 of the standard protocol.

MACHEREY-NAGEL · EN ISO 9001: 2008 CERTIFIED

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany

Germany and international:
Tel.: +49 24 21 969-0
Fax: +49 24 21 969-199
E-mail: info@mn-net.com

Switzerland:
MACHEREY-NAGEL AG
Tel.: +41 62 388 55 00
Fax: +41 62 388 55 05
E-mail: sales-ch@mn-net.com

France:
MACHEREY-NAGEL EURL
Tel.: +33 388 68 22 68
Fax: +33 388 51 76 88
E-mail: sales-fr@mn-net.com

USA:
MACHEREY-NAGEL Inc.
Tel.: +1 484 821 0984
Fax: +1 484 821 1272
E-mail: sales-us@mn-net.com