RNA extraction from mouse artery
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CONTEXT
The Center is focused on high-throughput genome analysis.
The goal of this work is to compare three equipments
dedicated to the homogenization of mouse artery
tissues to extract total RNA.

MATERIAL
- Precellys®24.
- Precellys lysiing kits: 03961-1-003 (1.4mm ceramic beads)
- Competitor M and competitor Q.
- Sample: 30 mg of mouse artery tissues (triplicate).
- Buffer: Trizol.

PROTOCOL
- Precellys®24: 1.4 mm ceramic beads, 250 µl
  Trizol, 6500 rpm, 2×10s (10s break) and 6500
  rpm, 1×15s (8s break).
- Competitor M: 1.4 mm ceramic beads, 200 µl
  Trizol, 6500 rpm, 50 sec.
- Competitor Q: 5 mm metal bead, 350 µl Trizol,
  30 1/s, 2 min.
- Total RNA extraction: Trizol extraction method.

RESULTS
The figure 1 illustrates the total RNA yield obtained
from mouse artery tissues with the three
homogenizers tested. The table 1 shows the RNA
quality parameters for each RNA extracted.

CONCLUSION
The best RNA yield is obtained with Precellys®24 homogenizer compared both
competitors. The RIN and the A260/280 show a good quality of RNA extracted.
Precellys®24 gives us a new approach in our sample preparation, combining
efficiency and time for this sensitive sample.

For more details, please contact
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