

miND[®] spike-in Quick Start Protocol

For Research Use Only

Storage Guide

Product Number	Formulation	Size	Shipment Condition	Storage
KT-041-MIND-96	Lyophilized	96 reactions	Room temperature	Store at –20 °C (short-term) or –80 °C (long-term). After reconstitution, prepare aliquots and store at –80 °C.
KT-041-MIND-48	Resuspended, Ready-to-use	48 reactions	Dry ice	Store immediately at –80 °C.

Handling Guide

- Prepare single-use aliquots in low-binding tubes.
- Avoid repeated freeze-thaw cycles.
- Clean surfaces and equipment with RNase decontamination solutions before starting work.
- Keep the resuspended spike-ins on ice during handling.
- To minimize variability, use a single batch of spike-ins for an entire project. For projects exceeding 96 samples, reconstitute multiple tubes, pool and mix thoroughly, then aliquot to ensure consistency.

Protocol

Preparation

For KT-041-MIND-96 (lyophilized):

1. Centrifuge the tube at 3,000 x g for 2 min.
2. Add **115 µL nuclease-free water**.
3. Mix by vortexing briefly or pipetting up and down 10 times.
4. Incubate on ice for 20 min.
5. Vortex again briefly and spin down.
6. Prepare single-use aliquots and store at -80°C.

For KT-041-MIND-48 (ready-to-use):

Proceed directly to aliquoting and use.

Addition to RNA samples

7. Thaw spike-in aliquot on ice.
8. Mix gently and spin down briefly.
9. Add **1 µL spike-in** per RNA sample.
10. Immediately proceed with library preparation according to the manufacturer's protocol.

Sequencing Recommendations

11. Read length: ≥ 50bp
12. Sequencing depth: ≥ 7.5 million reads/sample

For more detailed instructions and data analysis set-up, please refer to the full *miND® spike-in Instruction Manual v2.0*.

