

Quick Start Guide

GenElute™ mRNA Miniprep Kit

For purification of mRNA from total RNA preparations

MRN10, MRN70

Use

For purification of mRNA from total RNA preparations.

Protocol

All spins at $\geq 12,000 \times g$.

Bind mRNA to Beads

1. Bring volume of total RNA to 250 μ L with RNase-free water.
2. Add 250 μ L 2x Binding Solution.
3. Vortex bead stock to ensure homogenous suspension. Add 15 μ L beads to RNA and vortex thoroughly.
4. Incubate 3 min at 70°C.
5. Incubate at room temperature for 10 min.
6. Spin 2 min to pellet beads:mRNA complex and discard supernatant carefully. Leave behind 50 μ L to avoid disturbing the pellet.

Wash to Remove Contaminants

7. Resuspend pellet in 500 μ L Wash Solution and mix by vortexing or pipetting.
8. Transfer to Filter/Collection Tube assembly. Spin 1-2 min, discard flowthrough, and reassemble Filter with its Collection Tube.
9. Add additional 500 μ L Wash Solution to Spin Filter. Spin 1-2 min and discard flowthrough with Collection Tube.

Elute Purified mRNA

10. Transfer Filter into new Collection Tube.
11. Add 50 μ L Elution Buffer (pre-warmed to 70°C) into center of Filter, such that beads are fully soaked. Incubate at 70°C for 2-5 min. Spin 1 min.
12. Repeat Elution with an additional 50 μ L Elution Buffer using the same Collection Tube.

Notice

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

The information in this document is subject to change without notice and should not be construed as a commitment by the manufacturing or selling entity, or an affiliate. We assume no responsibility for any errors that may appear in this document.

Technical Assistance

Visit the tech service page on our web site at SigmaAldrich.com/TechService.

Terms and Conditions of Sale

Warranty, use restrictions, and other conditions of sale may be found at SigmaAldrich.com/Terms.

Contact Information

For the location of the office nearest you, go to SigmaAldrich.com/Offices.