Plasmid Purification Magnetic Beads (RNA Depletion)

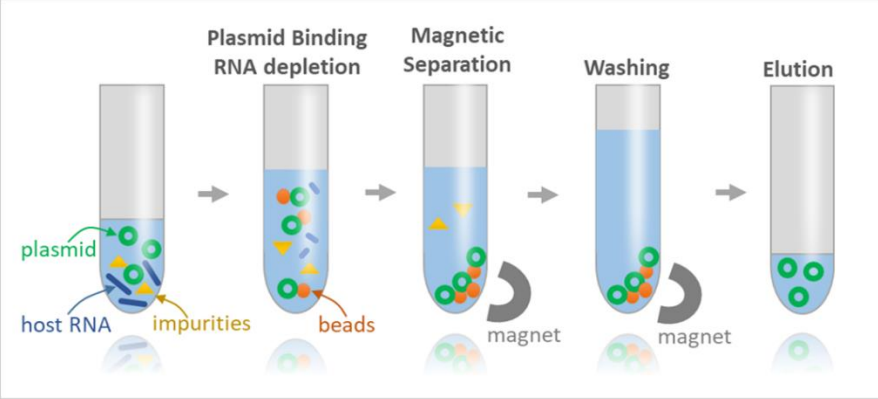
Catalog No.	40059S	40059L
Runs*	40 runs	200 runs

*Based on sample volume of 100 µl

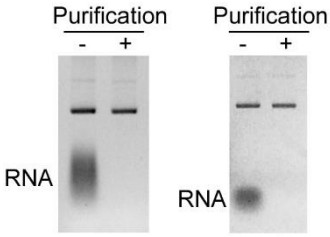
Description

Plasmid isolation from bacterial cultures is one of the most popular techniques in biomedical research and pharmaceutical industries. However, it is common that the isolated plasmid DNA is usually contaminated with varied degrees of host RNA. Plasmid purification is necessary to reduce the impact on downstream applications by removing RNA contamination.

We have developed a simple reagent to completely remove RNA contamination in the isolated plasmid samples using Solid Phase Reversible Immobilization (SPRI) beads. SPRI beads consist of paramagnetic particles coated with carboxyl groups that reversibly bind DNA. Our **Plasmid Purification Magnetic Beads (RNA Depletion)** combines BioDynami's proprietary chemistries with the reversible DNA-binding properties of SPRI magnetic beads. The reagent removes RNA and recovers the plasmid in the same step. Moreover, unwanted components such as salts, dNTPs, proteins, enzymes, and other impurities can also be removed simultaneously.



Plasmid can be used for downstream applications such as enzymatic digestion, transformation, transfection and molecular cloning etc. The beads can be an effective and inexpensive reagent for bacterial RNA depletion for routine plasmid purification.



Features

- Effective depletion of bacterial RNA by RNase
- High recovery rate of plasmid DNA by magnetic beads
- Removal of unwanted components and impurities
- Simple and fast beads-based protocol

Component

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Storage Condition

- Store at 4°C, stable up to 6 months.

Reagent & Equipment Needed (not provided in this reagent)

- Magnetic particle concentrator
- 96-well PCR plate or Eppendorf tubes
- 80% ethanol (prepare before use)

Protocol

Note: Invert or shake the bottle to thoroughly resuspend the beads.

1) Transfer samples to a 96-well plate or Eppendorf tubes, and add 0.5X volumes of the beads to the wells containing samples. Slow pipetting of the viscous beads is needed for precise aliquot. Mix by pipetting gently and thoroughly.
2) Incubate at 37°C for 10 min. **Note**: Incubation time can be extended in case of heavy RNA contamination.
3) Load the sample plate on a magnet, incubate for 3 min, and discard the supernatant carefully.
4) Add 180 µl of 80% ethanol without disturbing the beads. Incubate for 2 minute and discard the supernatant carefully. Remove all residual ethanol without disturbing the beads.
5) Air-dry the beads on the magnet for 3 min.
6) Remove the plate from the magnet and resuspend the beads in at least 20 µl of water, Low TE Buffer or TE Buffer. **Note**: Resuspend the beads in less than 20 µl will reduce the yield.
7) Load the plate on the magnet, incubate for 1 min, and transfer supernatant (containing plasmid DNA) to a new tube without disturbing the beads.

Quality Control

Magnetic beads components passed stringent functional quality test.

Product Use Limitation

This product is developed and sold for research purposes and *in vitro* use only. Please refer to biodynami.com for Material Safety Data Sheet of the product.

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BioDynami

601 Genome Way, Huntsville, Alabama 35806, USA
https://biodynami.com
support@biodynami.com

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