

Application of Purified DNA or Plasmids to GenPlates for Room Temperature Storage

Purified DNA ARCHIVING SYSTEM®

TECHNICAL SUPPORT
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Purified DNA or Plasmid Application

For the application of purified DNA and plasmids ONLY onto GenVault Purified DNA GenPlates.

Before beginning, check the GenPlate foil pouch labeling to ensure a Purified DNA GenPlate is being used.

1. Remove the **Purified DNA GenPlate** from the foil pouch, *only* when you are ready to use it. It will have a **blue** foil seal. *The foil pouch is reusable for storing or shipping the plate.*
2. Remove and discard the temporary blue foil seal on the GenPlate. *GenPlate should be used within 60 minutes of removal from foil pouch or kept in a cool, dry environment (ambient temperature and <40% relative humidity).*
3. If applying **purified genomic DNA**: Spot 0.5µg to 3µg of purified genomic DNA in 5-10µl to the center of each well. If applying **purified plasmids**: Spot 25ng to 3µg of purified plasmid (under 10kb) in 5-10µl to the center of each well. Recovery of plasmid DNA is 80-90% and the recovery of genomic DNA is ≥70% with total concentrations of >1µg per element. *It is not necessary for the pipette tip to contact the storage matrix, but the sample must be entirely dispensed onto the storage matrix to ensure its preservation and proper recovery.*
4. After applying the sample (or samples to a multi-sample plate), place the unsealed plate in a desiccated environment with less than 10% relative humidity or a GenVault Drying Station. Dry overnight (12-16 hours).
5. After samples are dry, apply the **Adhesive Storage Plate Seal**. Ensure that the seal is firmly attached to the top of the plate; avoid creating bubbles on the surface of the plate.
6. Plate is now ready for room temperature storage at 40% relative humidity or less (i.e. in a desiccator box, or GenVault's Desktop archive (100 GenPlates) Personal archive (1,200 GenPlates) or Dynamic Archive (12,000+ GenPlates). **To achieve maximum DNA yield, allow the plate to cure for two weeks before recovery.**