

## DNA Sample Stabilization and Recovery Quick Reference Protocol

DNA SampleMatrix® stabilizes DNA samples at room temperature. Each tube or plate contains DNA SampleMatrix as a coating at the bottom of the tube or well, which protects picogram to microgram amounts of DNA. This medium is completely dissolvable and ensures total sample recovery.

### Stabilize for Storage

- Open tube or remove seal from plate.
- Add 1-20 µl of DNA to each tube or well and mix with gentle pipetting.
- Leave tube or well open to dry overnight on lab bench or in laminar flow hood.
- Cap tube or cover plate with aluminum seals, and place in moisture-barrier bag and heat seal for storage.
- For optimal results, dried samples should be stored at room temperature (15 - 25° C) and protected from humidity in either a desiccating chamber or a heat-sealed moisture-barrier bag.
- Note: Prolonged exposure to light may cause fading or color change of DNA SampleMatrix; however, this will *not* affect protective properties of the storage medium. To prevent color change, store sample in moisture-barrier bag or wrap in aluminum foil to protect from light.

### Sample Recovery

- Add 10-100 µl of H<sub>2</sub>O to well or tube.
- Hydrate for 15 minutes.
- Pipette gently to ensure complete mixing.
- Retrieve sample for further applications.
- It is not necessary to further purify rehydrated samples.
- Rehydrated samples can be re-dried without loss of efficient sample stabilization. We do not recommend repeating the rehydration- drying process more than (3) times.

### Samples can be used directly in downstream applications:

- PCR
- qPCR
- Sequencing
- STR Analysis
- Whole Genome Amplification
- Restriction Analysis
- Transformation
- Cloning