



## Sample Stabilization and Recovery Quick Reference Protocol

96-well tube plates (2D barcode & Alphanumeric)

**For sample recovery, see reverse.**

DNAstable® stabilizes purified DNA samples at room temperature. Each tube or plate contains DNAstable 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

- Remove septa seals from the individual tubes from the 96-well tube plate.
- Add up to 300  $\mu$ l of purified DNA sample directly into each tube and mix with gentle pipetting
- Place tube plate to dry in a laminar flow hood or Vacufuge / SpeedVac following the time guideline tables below. For volumes  $>30$   $\mu$ l or for accelerated drying of all volumes, Vacufuge samples at the heated temperature setting (45°C)
- Longer drying times are preferable to ensure complete sample drying. Completely dried samples should not feel sticky or tacky when tapped with a sterile pipette tip.
- Cap tube or cover plate with adhesive seals after removing backing.
- Store at room temperature (15-25°C) and protect from moisture by either:
  - 1) Storing in a dry storage cabinet or
  - 2) Heat seal the moisture barrier bag, enclosing the dried sample and desiccant packet.
- Dry storage cabinets and additional moisture-barrier bags are available at [www.biomatrix.com](http://www.biomatrix.com)

### Minimal Drying Times (hours) in a Laminar Flow Hood\*

Sample Volume ( $\mu$ l)	96-well tube plate
up to 30	16

\*Drying times may vary depending on the humidity level in the laboratory. Recommended drying times were determined at 50% relative humidity (RH). Typical HVAC controlled facilities have 40-50% RH.

### Minimal Drying Times (hours) in a Vacufuge / SpeedVac heated at 45°C\*\*

Sample Volume ( $\mu$ l)	96-well tube plate
up to 30	1
31-150	3.5
151-300	6.5

\*\*Drying times may vary depending on model and condition of SpeedVac and vacuum pump used.



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### Sample Recovery: Just Add Water

- Add H<sub>2</sub>O or other liquid in identical volume to input volume to the tube containing stored sample.
- Incubate for 15 minutes.
- Pipette gently to ensure complete mixing. Use directly in downstream application.
- 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 (see handbook for details on dilution factors)
- Sequencing
- STR Analysis
- Whole Genome Amplification
- Restriction Analysis
- Transformation
- Cloning

**For more information, please refer to the DNASTable handbook at [www.biomatrica.com](http://www.biomatrica.com).**