



## Sample Stabilization and Recovery Quick Reference Protocol

1.5-ml Flip-Cap Tube, 96-well and 384-well Plate

**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

- Open tube or remove seal from 96-well plate.
- Add 1–20  $\mu$ l of purified DNA sample directly into each tube or well and mix with gentle pipetting
- Place tube or plate to dry in a laminar flow hood or SpeedVac following the time guideline tables below. For volumes >20  $\mu$ l or for accelerated drying of all volumes, SpeedVac samples at the lowest temperature setting (25–30°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.biomatrica.com](http://www.biomatrica.com).

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

Sample Volume ( $\mu$ l)	Tube	96-well plate	384-well plate
5	4	4	8
6–10	6	6	12
11–20	12	8	24
21–50	28	18	48
51–100	56	24	68
101–125	72	24	78

\*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 (minutes) in a SpeedVac at Low Temperature (25–30°C)\*\*

Sample Volume ( $\mu$ l)	Tube	96-well plate	384-well plate
5	10	15	80
6–10	15	15	120
11–20	30	30	180
21–50	45	90	360
51–125	60	150	—
126–150	75	180	—

\*\*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 10-100  $\mu$ l of H<sub>2</sub>O or other liquid to the tube or well 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).**