



## Sample Stabilization and Recovery Quick Reference Protocol 1.5-ml Screw-Cap Tube and 96-well Plate

RNAstable™ protects RNA samples from degradation at room temperature. Each tube or plate contains RNAstable as a coating at the bottom of the tube or well that protects picogram to microgram amounts of RNA. This medium is completely dissolvable and ensures total sample recovery.

### Stabilize for Storage

- Open cap on tube or remove seal from 96-well plate.
- Add up to 100  $\mu\text{l}$  [ $\leq 100 \mu\text{g}$ ] of the RNA sample directly into each tube or well.
- For convenient air-drying of volumes  $\leq 20 \mu\text{l}$ , leave tube open overnight in laminar flow hood.
- For volumes  $\geq 20 \mu\text{l}$ , or for accelerated drying of all volumes, please SpeedVac **without heat**.
- Once dried, cap tube or seal 96-well plate. Store at room temperature (15–25°C) and protect from moisture. Either:
  - 1) Store in a dry storage cabinet.
  - 2) Heat seal the moisture-barrier bag, enclosing desiccant pack.
- Dry storage cabinets and additional moisture-barrier bags are available at [www.biomatrica.com](http://www.biomatrica.com).

### SpeedVac® Drying Time

Sample Volume	Drying Time
10–20 $\mu\text{l}$	30 minutes
20–30 $\mu\text{l}$	1 hour
30–100 $\mu\text{l}$	1.5 hours

### For sample recovery, see reverse.

For more information, please refer to the RNAstable handbook at [www.lifetechindia.com/RNA-Stable-Detailed-Handbook.pdf](http://www.lifetechindia.com/RNA-Stable-Detailed-Handbook.pdf)

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## **Sample Recovery: *Just Add Water***

- Add 10-100  $\mu\text{l}$  of  $\text{H}_2\text{O}$  or other liquid to the tube or well containing stored sample.
- Hydrate for 15 minutes.
- Pipette gently to ensure complete mixing.

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

- Quantitative Real-Time PCR
- Bioanalyzer and microarray analysis
- End-point PCR and gel analysis
- cDNA synthesis
- Reverse transcription

For more information, please refer to the RNastable handbook at [www.lifetechindia.com/RNA-Stable-Detailed-Handbook.pdf](http://www.lifetechindia.com/RNA-Stable-Detailed-Handbook.pdf)

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