



# 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

## Sample 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

\*Using SpeedVac or Vacufuge Plus

Refer to **Appendix A** in Handbook for details on determining concentration of RNA.

**For sample recovery, see reverse.**

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

## 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 mixture, use a vacuum concentrator **without heat**.
- Once completely dried, replace cap on tube or seal 96-well plate. Store at room temperature (15-25°C) and protect from moisture. Store in either:
  - 1) Dry storage cabinet.
  - 2) Heat sealed moisture barrier bag, with desiccant pack.
- Dry storage cabinets and additional moisture barrier bags are available at [www.biomatrica.com](http://www.biomatrica.com)



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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

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