



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.

Sample Drying Time*

Sample Volume	Drying Time
10-20 μ l	30 minutes
20-30 μ l	1 hour
30-100 μ 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.

Stabilize for Storage

- Open cap on tube or remove seal from 96-well plate.
- Add up to 100 μ l [$\leq 100 \mu$ g] of the RNA sample directly into each tube or well.
- Cover opened tube or plate with breathable sealing film (so as to keep RNAses out during the drying process).
- For convenient air-drying of volumes $\leq 20 \mu$ l, leave tube open overnight in laminar flow hood.
- For volumes $\geq 20 \mu$ l, or for accelerated drying of mixture, use a vacuum concentrator **without heat**.
- Once completely dried, remove seal and cap 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.



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Sample Recovery: *Just Add Water*

- Add 10-100 μ l of H₂O 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