



RNAstable LD (Liquid-to-Dry) Quick Reference Protocol

Store RNAstable LD at 4°C

RNAstable® LD is a liquid format of RNAstable and it protects RNA samples from degradation at room temperature. RNAstable LD offers stabilization from 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

- Add 20 μ l of RNAstable LD to stabilize 10pg to 100 μ g of the RNA sample (up to 100 μ l) directly into each tube or well.
- Gently pipette up and down to mix. Avoid forming bubbles.
- For convenient air-drying of volumes \leq 20 μ l, leave tube open overnight in laminar flow hood.
- For volumes \geq 20 μ l, or for accelerated drying of mixture, use a vacuum concentrator **without heat**.
- Complete drying can be tested by gently touching the sample with a sterile pipette tip. A fully dried sample will not stick to the tip.
- Once completely dried, 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.



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