

RNAstable® Frequently Asked Questions (FAQ's)

1. What is the optimal input RNA amount?

100pg to 100ug of RNA per tube or well.

2. How do I know when RNAstable is dry?

Touch yellow matrix with an RNAase-free pipet tip. If yellow does not stick to the tip, then RNAstable is completely dry. If yellow sticks to the tip, then RNAstable is not completely dry. Allow sample to continue drying.

3. Will extended drying damage my RNAstable® sample?

No, extended drying will not cause any damage.

4. Is it possible to dry and rehydrate RNAstable samples multiple times?

We recommend up to 3 times of drying and rehydration.

5. How is RNAstable different than RNAconcentrator?

RNAstable is designed for shipping and longterm storage of RNA. RNAconcentrator is designed for concentrating RNA samples. It is used for shipping and short term storage up to 1 week.

6. Since RNAstable has a pale yellow coloring, will this interfere with quantification?

RNAstable fluoresces at the 230nm to 260nm range. Simply use an empty tube of RNAstable as a blank for UV-Spectrophotometry and Nanodrop readings.

7. Will RNAstable stabilize degraded RNA samples?

No. RNA will only stabilize high quality RNA samples with a RIN of 8.0 to 10.0.

8. Is RNAstable compatible with next generation sequencing?

Yes. Please see: www.biomatrica.com/downloads/AMP2012Broad.pdf

9. How can I avoid RNase contamination when using a SpeedVac/Vacufuge?

Care should be taken before drying RNA samples in a SpeedVac concentrator.

There are two options we suggest:

1. Spray the inside of the SpeedVac/Vacufuge Plus with RNaseZap® or RNase AWAY® to remove any contaminating RNases. Do a final rinse and wipe with 70% ethanol.
2. Simply apply a Breathe EASIER membrane (Cat. No. 16901-081) to an open tube or the AeraSeal Sealing Film to a plate. The membrane pores allow air to flow in and are small enough to keep RNases out. When samples are dry, remove the membrane. Close the cap to microfuge tubes and apply adhesive sheet to plates.

10. How do I store samples?

Samples are to be stored in a dry storage cabinet or a foil sealed bag with desiccant.

These are available from Biomātrica; please see: <http://www.biomatrica.com/otheracc.php>

11. How do I ship samples?

Place dried RNAsable samples in a foil sealed bag with desiccant. Place foil bag in an envelope and ship. No ice is required.

12. What types of RNA can be stored in RNAsable?

Animal, plant, and viral RNA.

13. The first strand synthesis reaction mix turned pink when RNAsable was added. Is this a cause for concern?

The reaction is not affected. RNAsable contains a pH indicator that turns pink when added to a slightly basic reaction mix.