



**S100**

Store at room temp  
Stable for one year

**Safety information**

Slightly hazardous (irritant, sensitizer) in case of skin and/or eye contact, always wear gloves and safety glasses.

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## Description:

Even with the highest concentration of strongest protein denaturants (e.g. guanidine cations) in lysis buffer of RNA extraction kits, RNA still undergo constant degradation in tissue lysates. We identified some RNase inhibitory compounds that significantly enhance RNA stability in tissue lysates [Patent Pending].

RNA in tissue / cell lysates with RNA*Sound*<sup>™</sup> RNA Lysis Additives are as stable as RNA in tissues that were submerged in RNeasy<sup>®</sup> RNA reagent.

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In order to stabilize RNA with the effects of RNA*Sound*<sup>™</sup> RNA Lysis Additives, tissues or cell pellets need to be homogenized immediately and thoroughly in RNA*Sound*<sup>™</sup> RNA Lysis Additives enhanced guanidine based lysis solution.

Unlike RNeasy<sup>®</sup>, RNA*Sound*<sup>™</sup> RNA Lysis Additives are completely compatible with RNA extraction chemicals, RNA extraction can be easily carried out as no extra additives were added.

RNA*Sound*<sup>™</sup> RNA Lysis Additives are not intended to be used with phenol based lysis buffer.

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## Protocol

### 1. Lysis preparation

- 1) Whole bottle of guanidine lysis buffer can be pre-mixed with RNA*Sound*<sup>™</sup> RNA Lysis Additives (25:1), the shelf life of lysis buffer is not affected with the additives.
- 2) Or, appropriate volume of lysis buffer can be aliquoted according to the sample number and mixed with RNA*Sound*<sup>™</sup> RNA Lysis Additives (25:1) prior to sample homogenization.
- 3) Samples are immediately and thoroughly homogenized in RNA*Sound*<sup>™</sup> RNA Lysis Additives enhanced lysis buffer.
- 4) RNA are stable in enhanced lysates at room temperature for at least one week.
  - Store lysates on ice or at 4 °C or lower can further stabilize RNA.

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