

RNAgard® Blood RNA Precipitation Buffer



Instructions for Use (IFU)

REF RP1-001-FG

INTENDED USE

RNAgard Blood RNA Precipitation Buffer is intended for the precipitation of cellular RNA for purification from human whole blood stabilized by RNAgard Blood. **For Research Use Only. Not for Use In Diagnostic Procedures.**

SUMMARY AND PRINCIPLES

RNAgard Blood RNA Precipitation Buffer, when used in conjunction with RNAgard Blood Tubes (Cat. No. 62201-131) or RNAgard Blood Reagent (Cat. No. 66201-151) and with the RNAgard Blood Purification Kit (Cat. No. 64201-601), provides high yield and quality RNA for use in a wide range of downstream applications. The RNAgard Blood RNA Precipitation Buffer is also compatible with a wide range of commercially available purification systems. See Application Notes under the Resources tab at http://biomatrica.com/rnagardblood_tube.php for examples.

REAGENTS

RNAgard Blood RNA Precipitation Buffer consists of 180mL of a proprietary reagent. This volume is sufficient for 50 RNA purifications.

PRECAUTIONS

1. For Research Use Only. Not for Use In Diagnostic Procedures.
2. Practice Universal Precautions when handling this product.
3. Avoid skin contact with RNAgard Blood RNA Precipitation Buffer.
4. Do not use RNAgard Blood RNA Precipitation Buffer after expiration date printed on bottle.

CAUTION

Contents of this tube may cause irritation to eyes, respiratory system and skin.

1. If accidental inhalation occurs, supply fresh air and seek medical advice in case of complaints.
2. In case of skin contact, immediately wash with water and soap and rinse thoroughly.
3. In case of eye contact, rinse immediately with plenty of water for at least 15 minutes and seek medical advice.
4. If accidental swallowing occurs, immediately seek medical advice.
5. Refer to SDS in case of accidental ingestion or skin contact. All SDS information is available at http://biomatrica.com/support_sds.php.

STORAGE & STABILITY

Store the RNAgard Blood RNA Precipitation Buffer at room temperature (18-25°C) until the end of the shelf life marked by the expiration date.

INSTRUCTIONS FOR USE

Important Notes Before Starting

- Following blood collection in RNAgard Blood Tubes or mixing of blood with RNAgard Blood Reagent, allow at least 2 hours of incubation at room temperature (18-25°C) to start the purification process.
- If samples were frozen, make sure the samples are thawed and equilibrated to room temperature (18-25°C) for at least 2 hours.
- In order to maximize RNA yield, incubate 8-12 hours at room temperature prior to RNA purification. Longer incubation times generally result in increased RNA yields.

Procedure for RNA Precipitation

1. Invert the sample at least 5 times to ensure proper mixing.



2. Remove the cap and pour the contents of the tube into a clean 50mL conical tube.
3. Pipette 3mL of RNAgard Blood RNA Precipitation Buffer into the 50mL conical tube to bring the total volume to ~12mL and close the cap on the tube.
4. Incubate 15 minutes at room temperature (18-25°C) with shaking (500-750 rpm).

5. Vortex 50mL conical tube vigorously (maximum speed) for at least 30 seconds, ensuring that the solution travels to the top of the tube to achieve proper mixing of the contents.

6. Centrifuge the tube at >4500g for 30 minutes at room temperature (18-25°C) in a swing-bucket rotor.

Note: Similar RNA yields can be obtained by centrifugation at 9000g for 10 minutes at room temperature, using a fixed-angle rotor. Centrifugation can also be performed at 4°C, without impact on RNA yield or quality.

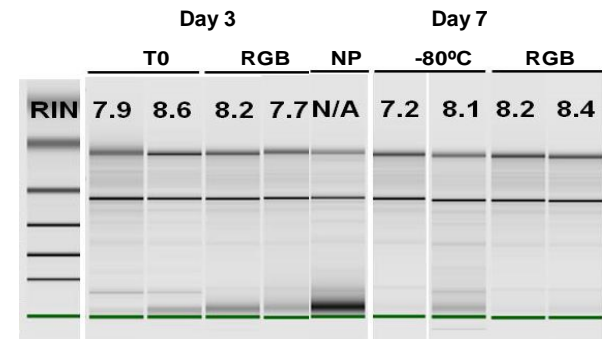
7. Carefully pour off the supernatant and leave the tube inverted on absorbent paper for 1-2 minutes.

Note: A translucent reddish pellet should be visible at the bottom of the tube.

8. Blot the remaining drops of liquid off the rim of the tube with clean absorbent paper.

9. Add 350µl lysis buffer from RNAgard Blood Purification Kit (or recommended volume from commercially available RNA purification kit). Vortex for 10-15 seconds to resuspend the precipitated RNA, and proceed with further RNA purification according to manufacturer recommended protocol.

EXPECTED RESULTS



Analysis of RNA quality in blood samples stored at various conditions using the Agilent 2100 Bioanalyzer. Gel image shows the integrity of RNA extracted at day 3 and day 7. The samples include fresh samples (T0), samples collected in RNAgard Blood Tubes (RGB), samples stored at -80°C (-80°C), and non-protected samples at room temperature (NP). Numbers above each lane represent RNA Integrity Number (RIN).

LIMITATIONS

RNAgard Blood RNA Precipitation Buffer is intended to enhance the purification of cellular RNA from human whole blood stabilized with RNAgard Blood for *Research Use Only* applications. It is not for the purification of genomic DNA or viral nucleic acids from human whole blood.

ORDERING INFORMATION

Orders may be placed online at www.biomatrica.com, via email at orders@biomatrica.com, or through Biomatrica Customer Support at 1-866-379-6879 (Toll Free in USA and Canada) or 1-858-550-0308.

GLOSSARY OF HARMONIZED SYMBOLS

REF Catalog Number	LOT Batch Code	Hazard	Σ Contains sufficient reagents for n number of tests
Keep away from sunlight	Manufacturer	Consult instructions for use	Temperature Limitation 4°C - 25°C
Use By			

Glossary of symbols may contain symbols not used in the labeling of this product

RNAgard[®] Blood RNA Precipitation Buffer

IFU Directions

Instructions for use can be obtained via the internet at http://biomatrica.com/rnagardblood_tube.php or by calling the following phone numbers: 1-866-379-6879 (Toll Free in USA and Canada) or 1-858-550-0308.