

Instructions for Use

INTENDED USE

RNAgard® Blood Reagent is intended for the preservation and storage of cellular RNA in whole blood for up to 14 days at room temperature.

SUMMARY AND PRINCIPLES

RNAgard® Blood Reagent is designed for the immediate preservation of cellular RNA in either human or animal blood samples at room temperature until purification and downstream analysis can be completed. High yields of high quality RNA with unaltered gene expression are obtained for use in a wide range of downstream molecular diagnostic applications.

REAGENT

RNAgard Blood Reagent consists of 100mL of a proprietary reagent to be mixed with freshly drawn whole blood for cellular RNA stabilization.

PRECAUTIONS

1. For In Vitro Diagnostics Use.
2. Practice Universal Precautions when handling this product.
3. Avoid skin contact with RNAgard Blood Reagent.
4. Do not use after expiration date printed on bottle.

CAUTION

Contents of this reagent 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

Prior to mixing RNAgard reagent with blood:

1. Store RNAgard Blood Reagent between 4°C and 25°C until the end of shelf life marked by the expiration date.
2. Immediately close the cap of the reagent bottle when not in use.

Following mixing RNAgard reagent with blood:

1. Store at room temperature (18-25°C) for up to 14 days.
2. Store at 2-8°C for up to 1 month.
3. For longer storage periods see Procedure for Freezing & Thawing Specimens.

INSTRUCTIONS FOR USE

A. Procedure for Mixing RNAgard Blood Reagent with Blood Specimen.

1. Add whole blood to a tube pre-aliquoted with RNAgard Blood Reagent making a final ratio of 1:2.5 (blood volume to reagent volume). The final volume of the blood-reagent mixture should not exceed 2/3 of the fill capacity of the tube.

Notes: Tubes that can be used in this procedure include: VACUETTE® blood collection tubes, microfuge tubes, and larger tubes (e.g. Falcon™ tubes).

2. Immediately mix by gently inverting at least 5 times.



3. Refer to Storage and Stability for storage following mixing.

B. Procedure for Freezing and Thawing Specimens Preserved in RNAgard Blood Reagent

Freezing

1. Store the blood-reagent mixture at room temperature for at least 2 hours before storing at lower temperatures.
2. For storage below -20°C, transfer specimens to cryovials, freeze them first at -20°C for 24 hours and then transfer to -70°C or -80°C.

Thawing

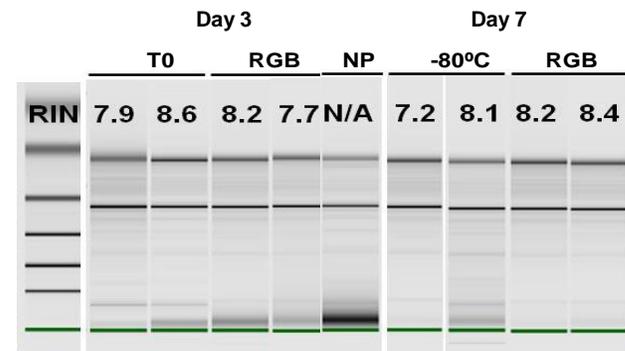
1. Thaw specimens preserved in RNAgard Blood Reagent at room temperature (18-25°C) for at least 2 hours. Longer equilibration to room temperature before proceeding to RNA purification generally results in higher RNA yields.
2. Gently invert the thawed tubes five times.

C. Procedure for Specimen Processing for Analysis

1. Allow at least 2 hours after the addition of RNAgard Blood Reagent to your blood sample to start the purification process.
 2. In order to maximize RNA yield, allow 8-12 hours of storage at room temperature prior to RNA purification, as longer incubation times generally result in increased RNA yields.

3. It is recommended that RNA purification be performed using the RNAgard® Blood RNA Purification Kit (Cat. No. CE-12000-001). Other commercially available RNA purification systems are also compatible with the RNAgard Blood Reagent using the RNAgard® Blood Precipitation Buffer, sold separately (Cat. No. CE-12180-001). For precipitation and purification procedures, please reference the Resources tab at www.biomatrica.com/rnagardblood_tube.php.

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 purified at day 3 and day 7. The samples include fresh samples (T0), samples collected in RNAgard Blood Tubes, 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 Reagent is intended for the preservation of cellular RNA from whole blood for *in vitro* diagnostic applications. It is not intended 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 Biomātrica Customer Support at 00 1 858 550 0308 (International), or by calling your local supplier.

GLOSSARY OF HARMONIZED SYMBOLS

Authorized Representative in the European Community	Catalog Number	Batch Code	Hazard	In Vitro Device
Keep away from sunlight	Manufacturer	Consult instructions for use	Temperature Limitation (4°C to 25°C)	Use By

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

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RNAgard[®] Blood Reagent Internet 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: 00 1 858 550 0308 (International), or by calling your local supplier.

Die Gebrauchsanweisung kann über das Internet unter http://biomatrica.com/rnagardblood_tube.php oder telefonisch unter den Telefonnummern 00 1 858 550 0308 (International) erhalten werden oder telefonisch von Ihrem örtlichen Lieferanten.

Le mode d'emploi est accessible sur Internet http://biomatrica.com/rnagardblood_tube.php ou en appelant 00 1 858 550 0308 (Internationale), ou en appelant votre fournisseur local.

Las instrucciones de uso se pueden conseguir a través de Internet en http://biomatrica.com/rnagardblood_tube.php, o llamando al siguiente número de teléfono 00 1 858 550 0308 (Internacional), o llamando a su proveedor local.

È possibile ricevere le istruzioni per l'uso visitando il sito Web http://biomatrica.com/rnagardblood_tube.php, chiamando il numero di telefono 00 1 858 550 0308 (Internazionale) oppure contattando il proprio fornitore locale.