Hangzhou Simgen Biotechnology Co., Ltd.
5th floor, Building No. 4, No. 8 Xiyuan 1st Road, Hangzhou, P. R. China.
Pc: 310030 Tel: +86-571-87381295 Fax: +86-571-87381295

Blood RNA Protect Reagent Instructions

Composition

Cat. No.	5211050	5211100
Blood RNA Protect Reagent	50 ml	100 ml
Instructions	1	1

Storage

1. The reagents can be stored for up to 2 years at room temperature (0~30℃). For longer storage, it is recommended to keep at 2-8℃.
2. The product stored at 2~8℃ should be restored to room temperature before use.

Technical Support

R&D Department, Hangzhou Simgen Biotechnology Co., Ltd. E-mail: technical@simgen.cn, Tel: 400-0099-857.

Introduction

This product can immediately stabilize the RNA in fresh blood after mixing with blood. The blood samples stabilized by Blood RNA Protect Reagent can be matched with Simgen Blood Total RNA Extraction Kit (Cat. No. 5212050) to extract blood RNA. Blood samples with blood RNA protect reagent can be transported at room temperature for 3~5 days, stored at 2-8℃ for 1 week, cryostore at -20℃ for 2 weeks, cryostore at -70℃ for more than 2 years did not affect the RNA extraction efficiency, and the RNA obtained was detected by electrophoresis without obvious degradation.

Equipment and Reagents to Be Supplied by User

1. Absolute ethanol.
2. 2 ml cryogenic tubes or 5 ml cryogenic tubes.
3. Pipette tips (to avoid RNase contamination, use RNase-free pipette tips with filters).
4. Protective equipment such as latex gloves, disposable masks, and paper towels.
5. Vortexer.
6. Laboratories that do not use RNases.
7. Blood collection tubes containing EDTA anticoagulants.
8. Blood Total RNA Extraction Kit (Matching with Blood RNA Protect Reagent, Cat. No. 5212050）.

Protocol

The ratio of anticoagulant whole blood to Blood RNA Protect Reagent must be 1:2, e.g. 1 ml anticoagulated whole blood need to add 2 ml Blood RNA Protect Reagent. The following steps are for using a 0.5 ml anticoagulated whole blood sample as an example to use a Blood RNA Protect Reagent:

1. **Add 1 ml Blood RNA Protect Reagent to a 2 ml cryogenic tube (not provided), add 500 µl whole blood or bone marrow (EDTA anticoagulation), tighten the cap, vortex and shake for 30 sec to mix well.**

* If larger volumes of blood samples need to be stored, increase the amount of Blood RNA Protect Reagent proportionally and select the appropriate cryogenic tube.

* The blood sample and the Blood RNA Protect Reagent must be mixed by vortexing, shaking or vigorous mixing to achieve the effect of stabilizing the RNA in the blood sample.

* Blood RNA Protect Reagents are corrosive, so please wear protective equipment when handling them.

2. **Aliquot or store them in the refrigerator for later use. For the subsequent RNA extraction steps, please refer to the instructions of the Blood Total RNA Extraction Kit.**