

Magnetic Blood DNA Extraction Kit Instructions

Composition

Magnetic Blood DNA Extraction Kit	64 Preps
Cat. No.	3011064
Pre-aliquot 96-well plates	4
8-well tip comb	8
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Storage

This product can be stored at room temperature (0~30°C) and have a validity period of 2 years.

Technical Support

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

Introduction

This product is designed for the Sim-300 Automatic Nucleic Acid Extractor for extracting total DNA from 200 µl fresh or frozen anticoagulated whole blood. The reagents provided in the kit have been pre-packed into 2.2 ml 96-well plates, and with the nucleic acid extractor, only need to add blood samples to the wells of column 1 and column 7, and the instrument can automatically complete a series of processes such as blood DNA release, adsorption, washing and elution, and finally the obtained DNA is dissolved in the wells of column 6 and column 12, and can be immediately used in various molecular biology experiments.

Equipment and Reagents to Be Supplied by User

1. Pipettes and pipette tips (to avoid contamination between samples, use pipette tips with filters).
2. Disposable gloves and protective equipment and tissues.
3. Sim-300 Automatic Nucleic Acid Extractor.

Protocol

1. Add 200 μ l anticoagulated whole blood to each well of column 1 and column 7 of a pre-aliquot 96-well plate and place the pre-aliquot 96-well plate into the automatic nucleic acid extractor.
2. Follow the steps below to set up the program in the automatic nucleic acid extractor:

Step	Hole	Amount of Fluid (μ L)	Soak (s)	Stirring intensity (level)	Stirring time (s)	Descending magnetism (s)	Bottom magnetism (s)	Magnetism times	Waiting time (s)	Stop Off/On 0/1	Plate1 lyse ($^{\circ}$ C)	Plate1 elute ($^{\circ}$ C)	Plate2 lyse ($^{\circ}$ C)	Plate2 elute ($^{\circ}$ C)
1	5	850	0	1	0	30	3	1	0	0	0	0	0	0
2	1	800	0	5	600	60	3	2	0	0	45	0	45	0
3	2	800	0	6	300	60	3	1	0	0	0	0	0	0
4	3	800	0	6	300	30	3	1	0	0	0	0	0	0
5	4	800	0	6	300	30	3	1	0	0	0	0	0	0
6	5	850	0	6	300	30	3	1	600	0	0	0	0	0
7	6	100	0	5	600	60	60	2	0	0	0	60	0	60
8	1	800	0	5	5	5	0	0	0	0	0	0	0	0

* The above program is designed according to Simgen automatic nucleic acid extractor (Cat. No. Sim-300), if it is used in other companies' instruments, please adjust the parameters of the program appropriately according to the characteristics of the instrument or call 400-0099-857 for technical support.

3. Collect and transfer the DNA from columns 6 and 12 into clean centrifuge tubes or seal the 96 deep-well plate directly with parafilm and store at -20° C for later use.

* Since the beads take away some of the eluted DNA solution, the DNA solution that can be collected is about 70 μ l.