

MagCore® Nucleic Acid Extraction Kits

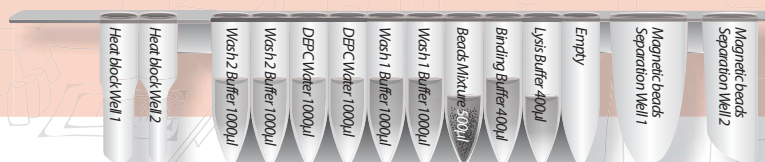


For total RNA extraction from human whole blood

MagCore® Total RNA Whole Blood Kit is designed for total RNA purification from up to 0.4 ml human whole blood using MagCore® automated extraction systems. DNase I is optional for eliminating possible DNA contaminants during the isolation of RNA.

601

MagCore® Total RNA Whole Blood Kit



Features

1. Able to process up to 0.4 ml of human whole blood.
2. No phenol or chloroform involved.
3. Pure RNA: A_{260}/A_{280} ratio between 1.9 and 2.2
4. RNA ready to use in downstream applications.
5. Optional DNase I for eliminating potential DNA contaminants.

Applications

Purified RNA ready to use in downstream applications such as:

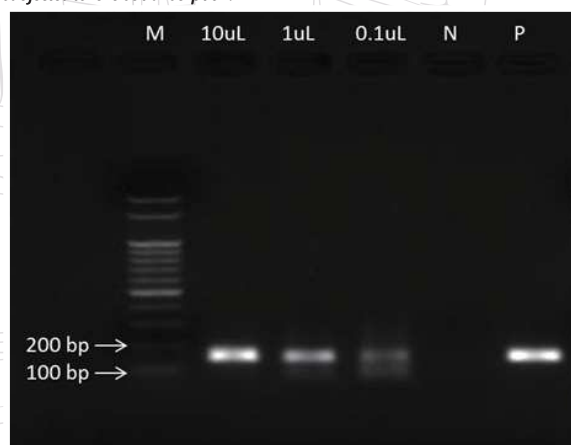
1. PCR
2. Real-time PCR
3. cDNA synthesis

Performance

Total RNA with high performance

Nested RT-PCR analysis

RNA eluted in a final volume of 60 µl was purified from 400 µl whole blood of healthy subjects by the MagCore® Total RNA Whole Blood Kit. Eluates of different volumes (10 µl, 1 µl and 0.1 µl) were subjected to reverse transcription.



M: 100bp DNA ladder
N: negative control
P: positive control

Performance

Total RNA was isolated from human whole blood samples by the employment of MagCore® instrument and Total RNA Whole Blood Kit (400 µl sample volume). The yield is 1 µg RNA/ 400 µl whole blood.

Eight replicates were applied to an agarose gel, showing the purified total RNA without signs of degradation.

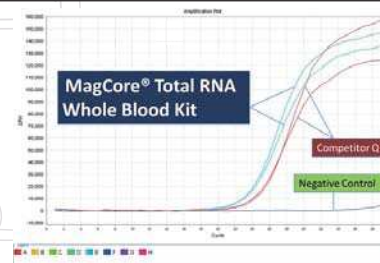


Comparison of real-time PCR results of mRNA extracted by MagCore® and Brand Q

mRNA was isolated from human whole blood by either the MagCore® Total RNA Whole Blood Kit or the Brand Q manual whole blood RNA Kit.

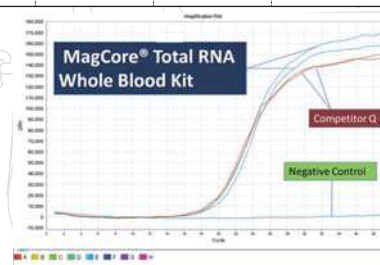
KRAS

Sample	1	2	Q1	Q2	N
Ct	24.47	24.26	25.47	25.67	—



BAC (β-actin)

Sample	1	2	Q1	Q2	N
Ct	20.44	20.98	20.34	20.11	—



MagCore® Automated Nucleic Acid Kits Specification

Cartridge Code	MagCore® Super/HF16 Plus/Plus II				MagCore® HF16/Compact/HF48			
	Cat No.	Cat No.	Cat No.	Running Time	Cat No.	Cat No.	Cat No.	Running Time
	36 preps	72 preps	96 preps		36 preps	72 preps	96 preps	

601

MagCore® Total RNA Whole Blood Kit

For whole blood samples (up to 0.4 ml)

Contents: Pre-Filled Cartridges, RBC Lysis Buffer, RB Buffer, Disposable Tip & Holder Sets, Sample Tubes, Elution Tubes

Shelf life: 18 months

MRN-01	MRN-02	50min (without DNase I treatment; starting volume: 200 µl) 75min (with DNase I treatment; starting volume: 200 µl) * optical detection is not provided	MRN-01	MRN-02	42min (without DNase I treatment; starting volume: 200 µl) 68min (with DNase I treatment; starting volume: 200 µl) (Applicable models: HF16, Compact)
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Enzyme Selection Guide

Product	Contents	Cat. No.
Proteinase K Set	11 mg Proteinase K, 1.25 ml PK Storage Buffer	PK011
DNase I Set	For 36 reactions RNase-Free DNase I (lyophilized): 1500 Kunitz units x 1 vial, 1 ml RNase-Free Water x 1, 15 ml DNase I Reaction Buffer	DN036
	For 96 reactions RNase-Free DNase I (lyophilized): 1500 Kunitz units x 2 vial, 1 ml RNase-Free Water x 2, 30 ml DNase I Reaction Buffer	DN096



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