

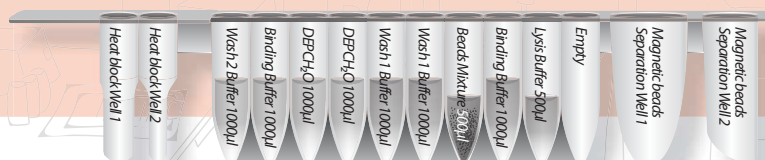
MagCore® Nucleic Acid Extraction Kits

For total RNA extraction from cultured cells, whole blood and tissues

MagCore® triXact RNA Kit is specially designed for total RNA purification from the three most common sample types in diagnostics, research, and forensics: up to 1×10^6 cultured cells, a variety of tissues, or whole blood samples. The program provides optional DNase I treatment to remove residual DNA and extract high quality DNA-free RNA. Make use of its outstanding extraction performance, efficiency, plus easy-to-follow protocols to simplify your every day extraction!

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MagCore® triXact RNA Kit



Features

1. Excellent RNA Yield and Purity shown in both A_{260}/A_{280} ratio and RIN value
2. Highly efficient and user-friendly protocol with minimal pretreatment required
3. Capable of isolating RNA from 3 types of samples: Cells, Whole blood, Tissues
4. Optional DNase I treatment to remove residual DNA

Applications

Purified RNA ready to use in downstream applications such as:

1. PCR
2. Real-time PCR
3. Microarray target preparation
4. Northern blotting
5. NGS analysis



Performance

Total RNA from 1 x 10⁶ Hela Cell Extract

No.	Kit	nanodrop ng/μl	260/280	260/230
1	Brand Q	207.15	2.08	1.86
2		182.85	2.07	1.78
3		174.90	2.11	1.63
4	Brand Z	171.52	2.03	2.24
5		210.45	2.02	2.22
6		164.76	2.05	2.17
7	MagCore® triXact RNA Kit	264.69	2.04	2.11
8		250.61	2.02	2.17
9		237.44	2.03	2.17
10	Brand M	224.35	2.11	2.26
11		252.69	2.10	2.30
12		222.45	2.08	2.18

Table 1. Analysis of Cell RNA from MagCore® triXact Kit and others

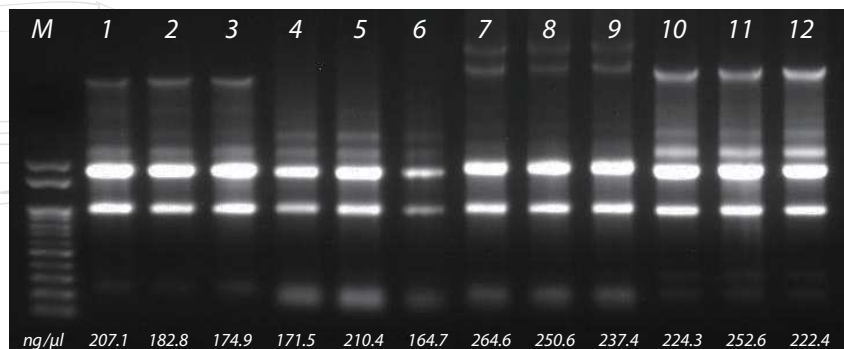


Fig 1. Gel Electrophoresis of RNA from 1 x 10⁶ Hela Cell Extract

Total RNA from 400μl Human Whole Blood

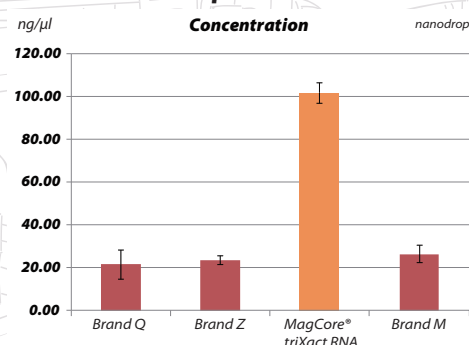


Fig 3. Concentration comparison of RNA from 400μl Human Whole Blood

No.	Kit	nanodrop ng/μl	260/280	260/230
1	Brand Q	28.77	1.99	1.69
2		20.88	2.06	0.31
3		15.02	1.89	0.85
4	Brand Z	21.36	1.97	1.82
5		23.32	1.98	1.48
6		25.50	1.71	1.26
7	MagCore® triXact RNA Kit	96.87	1.94	1.18
8		106.00	1.92	2.02
9		102.06	1.95	2.06
10	Brand M	27.03	1.91	0.73
11		22.09	2.35	1.23
12		30.13	2.08	0.37

Table 2. Analysis of Whole Blood RNA isolated by MagCore® triXact RNA Kit and others

No.	indicated anticoagulants	whole blood (ml)	nanodrop ng/μl	260/280	260/230
1	EDTA	0.4	40.08	2.03	1.69
2		0.8	189.10	1.96	2.09
3		1.2	256.82	1.94	2.12
4	Lithium Heparin	0.4	62.19	1.98	1.79
5		0.8	137.97	1.96	1.98
6		1.2	132.37	1.96	1.96
7	Sodium Citrate 3.2%	0.4	84.52	1.93	1.77
8		0.8	148.96	1.94	2.01
9		1.2	240.19	1.94	2.15
10	BD Vacutainer ACD Solution A	0.4	75.06	1.94	1.79
11		0.8	134.10	1.95	1.93
12		1.2	176.26	1.95	1.16

Table 3. Extraction efficiency of RNA from Human Whole Blood with various anticoagulants

Total RNA from 30 mg Fish Tissue

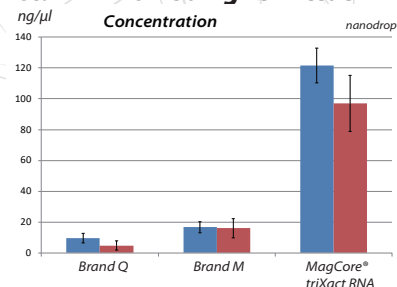


Fig 4. Concentration comparison of RNA from 30 mg Fish Tissue with/without DNase I treatment



MagCore® Automated Nucleic Acid Kits Specification

Cartridge Code	MagCore® Super/HF16 Plus/Plus II			MagCore® HF16/Compact		
	Cat No.	Cat No.	Running Time	Cat No.	Cat No.	Running Time
	24 preps	72 preps		24 preps	72 preps	

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MagCore® triXact RNA Kit

For total RNA extraction from cultured cells, human whole blood and animal tissues

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

Shelf life: 12 months

MRX-01	MRX-03	48min (without DNase I treatment; starting volume: 400μl) 81min (with DNase I treatment; starting volume: 400μl) *optical detection is not recommended	MRX-01	MRX-03	58min (without DNase I treatment; starting volume: 400μl) 73min (with DNase I treatment; starting volume: 400μl) (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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