

miRacle™ miRNA Extraction Kit (Dual)

For extraction of **microRNA** and **total RNA** from cells, tissue and blood

Efficient method to extract and enrich miRNA and total RNA

Optimizing amount of starting material

Protocol for separating miRNA and total RNA

High-yield and purity RNA for downstream application

Large amounts of sample can be used

Minimizing contamination by CAPS Column method



◆ Features

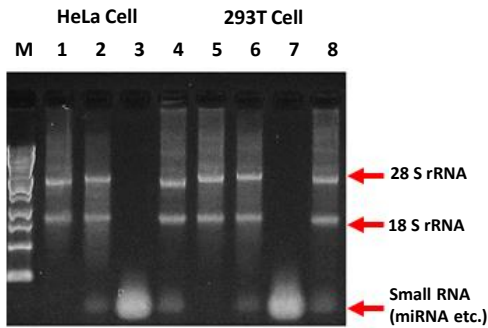
- miRacle™ miRNA extraction kit (Dual) is designed for extracting and enriching total RNA including micro RNA and other small RNA from diverse biological sources, including cell, tissue, blood without using alcohol PPT.
- This product is possible to extract large amounts of sample and optimize amount of starting material.
- Contamination is minimized by introducing individual packaged system which is very convenient for performing experiment.

Ordering information

Product Name	Cat.No.	Size
miRacle™ miRNA extraction kit (Dual)	17521	50 Tests

Performance

Comparison of efficiency of micro RNA and total RNA extraction



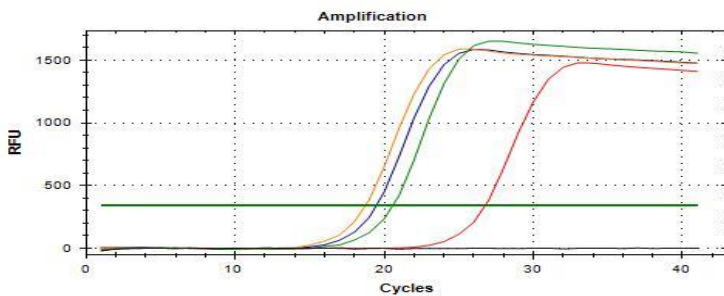
No.	Manufacturer	Cell line	RNA type	Yield (μg)	A _{260/280}	A _{260/230}
1	Supplier A	HeLa	Total	32.5	2.00	2.08
2	Supplier B		Total	16.5	2.10	2.21
3	iNtRON		miRNA	4.75	2.00	1.99
4			Total	62.9	2.09	2.22
5	Supplier A	293T	Total	22.3	1.97	1.89
6	Supplier B		Total	9.85	2.05	2.18
7	iNtRON		miRNA	2.14	2.00	1.80
8			Total	34.2	2.06	2.20

RNA was isolated and purified from HeLa cell and 293T cell with miRacle™ miRNA extraction kit (Dual) and other products. We have confirmed that efficiency of RNA extraction using our product is superior to other companies in terms of total RNA yield and that microRNA extraction is possible.

Lane M, DNA Marker; [HeLa cell] Lane 1, Supplier A; Lane 2 : Supplier B; Lane 3, miRacle™ miRNA extraction kit (Dual) (miRNA); Lane 4, miRacle™ miRNA extraction kit (Dual) (Total RNA); [293T cell line] Lane 5, Supplier A; Lane 6, Supplier B; Lane 7, miRacle™ miRNA extraction kit (Dual) (miRNA); Lane 8, miRacle™ miRNA extraction kit (Dual) (Total RNA)

Micro RNA assay based on extracted RNA

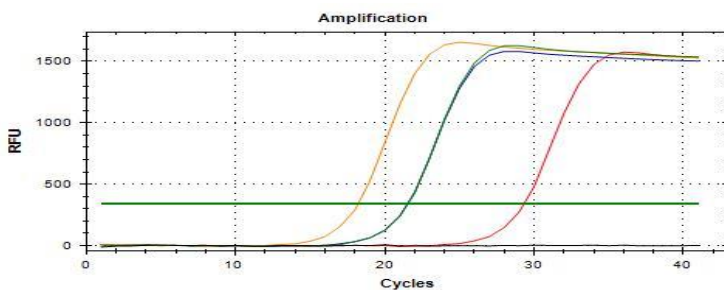
[HeLa Cell line]



Orange: Supplier A
Blue: Supplier B
Yellow: miRacle™ miRNA kit (miRNA)
Green: miRacle™ miRNA kit (Total RNA)
Black: Negative control

Using the RNA sample extracted from each kit, we confirmed that the Ct value from extracted RNA (microRNA) using the miRacle™ miRNA extraction kit (Dual) appeared first in a graph.

[293T Cell line]



Orange: Supplier A
Blue: Supplier B
Yellow: miRacle™ miRNA kit (miRNA)
Green: miRacle™ miRNA kit (Total RNA)
Black: Negative control

Using the RNA sample extracted from each kit, we confirmed that the Ct value from extracted RNA (microRNA) using the miRacle™ miRNA extraction kit (Dual) appeared first in a graph.

◆ Applications

miRacle™ miRNA Extraction Kit(Dual) is suitable for use in a variety of downstream applications, including:

- RT-PCR, real-time RT-PCR
- Micro RNA assay
- Northern Blot and Dot Blot
- cDNA synthesis

◆ Related products

Product Name	Size	Cat.No
easy-spin™Total RNA Extraction Kit	50 col	17221
easy-BLUE™Total RNA Extraction Kit	100 ml	17061
Maxime™RT PreMix (Random Primer) Kit	96 test	25082
Maxime™RT PreMix (Oligo (dT) 15 Primer) Kit	96 test	25081
ONE-STEP RT-PCR PreMix Kit	50 Rxn	25101
Maxim™ RT-PCR PreMix Kit	96 test	25131