DNA/RNA Shield[™]

Catalog Nos:	R1100-50	(50 ml)	
	R1100-250	(250 ml)	
Storage:	Room Temp	Temperature	

Features

- Preserves genetic integrity and expression profiles of samples (cells, tissues, blood, plasma, serum, saliva, urine, feces etc.) at ambient temperatures.
- DNA and RNA can be isolated directly without precipitation or reagent removal (compatible with most DNA and RNA purification kits).
- Inactivates infectious agents (virus).

Description

DNA/RNA Shield[™] ensures nucleic acid stability during sample storage/transport at ambient temperatures. There is no need for refrigeration or specialized equipment. DNA/RNA Shield effectively lyses cells and inactivates nucleases and infectious agents (virus), and it is compatible with various collection and storage devices (vacutainers, swabs, nasal, buccal, fecal etc.).

For Sample Storage

In an appropriate tube or collection device, add \geq 2.5 volumes DNA/RNA Shield[™] to each volume of liquid sample (\geq 600 µl for up to 10⁶ animal cells or up to 50 mg tissue) and homogenize*. Store/transport for later purification of high-quality DNA and/or RNA.

Temperature	Time
4°C - 25°C (room temp.)	Up to 30 days
37°C	Up to 3 days
-20°C and below	>1 year

Some tissues and tough-to-lyse organisms may require mechanical homogenization prior to stora

DNA/RNA Purification

Add samples in DNA/RNA Shield[™] directly to Zymo's DNA or RNA purification kits. Bind, wash, and then elute the DNA and/or RNA.

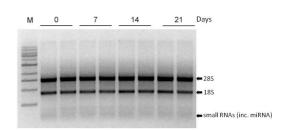
	Product	Size	Cat. No.
RNA	Quick-RNA [™] Kits	50 preps 200 preps	R1050, R1054 R1051, R1055
DNA	Quick-gDNA [™] Kits	50 preps 200 preps	D3020, D3024 D3021, D3025
DNA & RNA	ZR-Duet [™] Kits	50 preps	D7001

Note: Samples in DNA/RNA Shield[™] can also be processed with other commercially available DNA and RNA purification kits



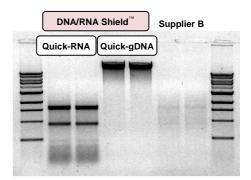
Product Information

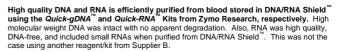
RNA Stabilization

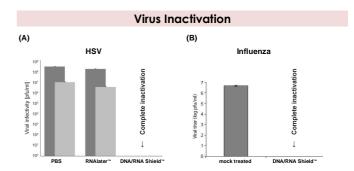


Cellular RNA is effectively stabilized in DNA/RNA Shield[™] at ambient temperature. RNA was purified from cells (HCT 116) stored in DNA/RNA Shield[™] at the designated times (days).

Nucleic Acid Purification







(A) Herpes Simplex Virus is effectively inactivated by DNA/RNA Shield[™]. HSV-1 (dark gray) & HSV-2 (light gray) inactivation following a 5 minute incubation in the DNA/RNA Shield[™]. (H. Oh, F. Diaz and D. Knipe; Harvard Medical School)

(B) Influenza virus is effectively inactivated by DNA/RNA Shield[™]. Influenza A virus was treated with four volumes of DNA/RNA Shield[™] or mock treated for 5 minutes. Titer was subsequently determined by plaque assay. (D. Poole and A. Mehle, University of Wisconsin-Madison)

Trademarks and Disclaimers

Trademarks and Discramers research institution or facility. DNA/RNA Shield[™] is available for OEM and integration into sample collection technologies.

ZYMO RESEARCH CORP.

Version 1.1.0

Phone: (949) 679-1190 • Toll Free: (888) 882-9682 • Fax: (949) 266-9452 • info@zymoresearch.com • www.zymoresearch.com

Related Products

Product	Description	Prep/Format	Catalog
	RNA Clean-Up		
RNA Clean & Concentrator [™] -5		50/column 200/column	R1015 R1016
RNA Clean & Concentrator [™] -25	Cleanup and concentration of modified, labeled, impure, diluted, DNase treated RNA (≥ 17nt) and purification of RNA from aqueous phase of organic extracts.	50/column 100/column	R1017 R1018
RNA Clean & Concentrator [™] -100		25/column	R1019
ZR-96 RNA Clean & Concentrator [™]	(DNase I included with R1013 and R1014.)	2x 96/plate	R1080
DNA-Free RNA Kit [™]		50/column 200/column	R1013 R1014
Oligo Clean & Concentrator [™]	Cleanup and concentration of RNA and/or DNA oligos. Good for clean-up of miRNAs	50/column 200/column	D4060 D4061
ZR-96 Oligo Clean & Concentrator™	and siRNAs.	2x 96/plate 4x 96/plate	D4062 D4063
ssDNA/RNA Clean & Concentrator™	Separation of short ssRNA and ssDNA (up to 200 nt) from double stranded species.	20/column 50/column	D7010 D7011
Zymoclean [™] Gel RNA Recovery Kit	Recovery of RNA from agarose gels.	50/column	R1011
ZR small-RNA [™] PAGE Recovery Kit	Small RNA (> 17nt) from polyacrylamide gels.	20/column	R1070
OneStep [™] PCR Inhibitor Removal Kit OneStep [™] -96 PCR Inhibitor Removal Kit	Removal of polyphenolics, humic/fulvic acids, tannins, melanin etc. from RNA.	50/column	D6030
Onestep -96 PCR inhibitor Removal Kit	RNA from Samples in Trizol [®] , TRI Reagent [®] , etc.	2x 96/plate	D6035
Direct-zol [™] RNA MiniPrep		50/column 200/column	R2050 R2052
Direct-zol [™] RNA MiniPrep w/ TRI Reagent [®]	RNA (>17 nt) from TRI Reagent [®] , TRIzol [®] , and all other acid-guanidinium-phenol	50/column w/ (50 ml) 200/column w/ (100 ml)	R2051 R2053
Direct-zol [™] -96 RNA	based reagents without phase separation. DNase I included.	2x 96/plate 4x 96/plate	R2054 R2056
Direct-zol [™] -96 RNA w/ TRI Reagent [®]		2x 96/plate w/ (200 ml) 4x 96/plate w/ (400 ml)	R2055 R2057
Direct-zol [™] -96 MagBead RNA	RNA (>17 nt) from TRI Reagent [®] , TRIzol [®] , and all other acid-guanidinium-phenol	2x 96/plate 4x 96/plate 8x 96/plate	R2100 R2102 R2104
Direct-zol [™] -96 MagBead RNA w/ TRI Reagent [®]	 based reagents without phase separation. These kits are in a magnetic bead format that is adaptable for high-throughput and automated protocols. DNase I included. 	2x 96/plate w/ (200 ml) 4x 96/plate w/ (400 ml) 8x 96/plate w/ (800 ml)	R2101 R2103 R2105
	RNA from Cells and Tissue		
Ovick DNA [™] MicroDrop		50/column	R1050
Quick-RNA [™] MicroPrep	_	200/column 50/column	R1051 R1054
Quick-RNA [™] MiniPrep	Total RNA from cells and tissue. DNase I included.	200/column	R1055
<i>Quick-RNA</i> [™] MidiPrep	_	25/column	R1056 R1052
ZR-96 <i>Quick-RNA</i> [™]		2x 96/plate 4x 96/plate	R1052 R1053
ZR-Duet [™] DNA/RNA MiniPrep	Parallel purification of DNA/RNA from cells.	50/column	D7001
Pinpoint [™] Slide RNA Isolation System Kit I	RNA from fresh/frozen tissue sections.	50/column	R1003
Pinpoint [™] Slide RNA Isolation System Kit II	RNA from paraffin-embedded (FFPE) tissue.	50/column	R1007
	RNA from Biological Liquids	50/column	R1034
ZR Viral RNA Kit [™]		200/column	R1035
ZR-96 Viral RNA Kit [™]	RNA (DNA) from body fluids (plasma, serum, CSF, urine).	2x 96/plate 4x 96/plate	R1040 R1041
ZR Viral DNA/RNA Kit [™]		25/column 100/column	D7020 D7021
ZR Whole-Blood RNA MiniPrep [™]	RNA from whole blood or partitioned blood.	50/column 100/column	R1020 R1021
ZR Urine RNA Isolation Kit [™]	Cellular and endosomal RNA from urine.	20/column 50/column	R1038 R1039
	RNA from Tough-to-Lyse Samples	00,00101111	111000
ZR Fungal/Bacterial RNA MicroPrep [™] ZR Fungal/Bacterial RNA MiniPrep [™]	RNA from bacteria, yeast, fungi; BashingBead™ lysis.	50/column 50/column	R2010 R2014
ZR Plant RNA MiniPrep [™]	RNA from leaves, stems, buds, flowers, fruits, seeds, etc; BashingBead™ lysis, RT/PCR inhibitor removal.	50/column	R2024
ZR Tissue & Insect RNA MicroPrep [™]	RNA from insect, arthropod specimen and small tissue samples; BashingBead [™] lysis.	50/column	R2030
ZR Soil/Fecal RNA MicroPrep [™]	RNA from soil, sludge, sediment, feces.	50/column	R2040
YeaStar RNA Kit [™]	RNA from yeast strains susceptible to Zymolyase. DNA and RNA Sample Preservation and Storage	50/column	R1002
DNA/RNA Shield [™]	DIVA and NIA Sample Freservation and Storage	50 ml 250 ml	R1100-50 R1100-250
DNA/RNA Shield [™] w/ <i>Quick-RNA</i> [™] MiniPrep	Cells, biological liquid, tissue storage and DNA/RNA purification.	50/column w/ (50 ml)	R1100-250
	Enzymes and Markers		
DNase I w/ 10X Reaction Buffer	Lyophilized	250 U	E1009
ZR small-RNA [™] Ladder	ssRNA (17, 21, 25, 29 nt)	10 µg	R1090