

# DNA/RNA Shield™ Lysis Tubes

(Microbe): Catalog No. R1103; w/ Swab Catalog No. R1104

(Tissue): Catalog No. R1105

## Quick Protocol



**ZYMO RESEARCH**

*The Beauty of Science is to Make Things Simple*

### Description

DNA/RNA Shield™ Lysis Tubes ensure sample stability during storage/transport at ambient temperatures without a need for refrigeration or specialized equipment. DNA/RNA Shield™ and BashingBead™ technologies effectively lyse samples and inactivate pathogens during the process (e.g., virus, bacteria).

Nucleic acids in samples are preserved at ambient temperature (DNA > 1 year; RNA up to 1 month). Samples in DNA/RNA Shield can be frozen (-20/-80°C) for prolonged storage.

### Required Sample Collection Accessories (Not included)

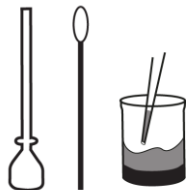
1. Sample collection set/methodology (ie. Swabs, scoops, etc.)
2. Labels for identification of samples.
3. Sample homogenizer (ie. MP Fastprep-24)

### Instructions

1. Ensure that the lysis tubes are at 18–25°C prior to use and properly labeled with specimen identification.
2. Using the desired specimen collection set/method, place sample directly into the DNA/RNA Shield™ Lysis tube(s).
3. Homogenize sample(s) using a high-speed benchtop homogenizer.  
**Note:** Alternatively, samples can be homogenized at time of purification if one is not readily available.
4. Samples are now stabilized, ready for transport or immediate purification.

### Sample Purification

Samples in DNA/RNA Shield™ can be input directly into a variety of nucleic acid purification systems including the DNA and RNA isolation kits from Zymo Research. Please see Zymo Research's purification kits at [www.zymoresearch.com](http://www.zymoresearch.com)



Collect sample using preferred method



Place collected sample into DNA/RNA  
Shield™ Lysis Tube



Homogenize collected samples

# DNA/RNA Shield™

Sample Collection & Preservation – Pathogen Inactivation – Direct Purification

## Available Formats



DNA/RNA Shield™ Product	Ordering	Description
<b>DNA/RNA Shield™ Reagent</b>  (2X concentrate)	R1100-50 R1100-250	All-purpose reagent for sample lysis and stabilization of DNA/RNA in tissues (e.g., mammalian biopsy, whole insect), cells (animal, microbial) and biological liquids.
	R1200-25 R1200-125	Reagent concentrate (2X) for use with biological liquids at 1:1 ratio. (Note: (2X) concentrate can be diluted to (1X) solution with nuclease-free water.)
<b>Lysis Tube (Microbe)</b>	R1103 R1104 (w/ Swab)	2 mL collection tube (prefilled with 1 mL DNA/RNA Shield™) and Microbe Bashing Beads for the collection and homogenization of microbial samples.
<b>Lysis Tube (Tissue)</b>	R1105	2 mL collection tube (prefilled with 1 mL DNA/RNA Shield™) and Tissue Bashing Beads for the collection and homogenization of tissue samples.
<b>Collection Tube</b>	R1102	2 mL collection tube (prefilled with 1 mL DNA/RNA Shield™) for collection of any sample.
<b>Blood Collection Tube</b>	R1150	16x100 mm evacuated blood tube (prefilled with 6 mL of DNA/RNA Shield™) for the direct collection of 3 mL whole-blood (human or animal).
<b>Fecal Collection Tube</b>	R1101	15 mL container (prefilled with 9 mL DNA/RNA Shield™) for the direct collection of up to 1 gram or 1 ml stool. Collection spoon is included in the container screwcap.
<b>Collection Tube w/ Swab</b>	R1106 (10 pack) R1107 (50 pack)	12 x 80 mm screwcap container filled with 1 mL DNA/RNA Shield™ and a sterile swab for specimen collection.