

DNA/RNA Shield™ Collection Tube

Catalog No. R1102

Quick Protocol

Description

DNA/RNA Shield™ Collection tubes (2mL) ensure sample stability during storage/transport at ambient temperatures without a need for refrigeration or specialized equipment. DNA/RNA Shield™ 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.



Collect sample using preferred method



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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™ Collection tube(s).
Note for solid/tissue samples: The sample should be completely submerged in the DNA/RNA Shield reagent to ensure optimal performance.
Note for liquid samples: Do not exceed 10% (v/v) of sample in the reagent to ensure optimal performance.
3. 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



Place collected sample into DNA/RNA
Shield™ Collection tube

DNA/RNA Shield™

Sample Collection & Preservation – Pathogen Inactivation – Direct Purification

Available Formats



DNA/RNA Shield™ Product	Ordering	Description
DNA/RNA Shield™ Reagent (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.)
Lysis Tube (Microbe)	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.
Lysis Tube (Tissue)	R1105	2 mL collection tube (prefilled with 1 mL DNA/RNA Shield™) and Tissue Bashing Beads for the collection and homogenization of tissue samples.
Collection Tube	R1102	2 mL collection tube (prefilled with 1 mL DNA/RNA Shield™) for collection of any sample.
Blood Collection Tube	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).
Fecal Collection Tube	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.
Collection Tube w/ Swab	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.