

DNA/RNA Shield™ Blood Collection Tube

Catalog No. R1150

Quick Protocol



ZYMO RESEARCH

The Beauty of Science is to Make Things Simple

Description

The DNA/RNA Shield™ Blood Collection Tube ensures sample stability during storage/transport at ambient temperatures without the need for refrigeration or specialized equipment. DNA/RNA Shield™ reagent effectively lyses samples and inactivates pathogens (e.g., virus, bacteria).

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

Required Blood Collection Accessories (Not included)

1. Blood collection set
2. A vacuum tube needle holder must be used to ensure proper function.
3. A "Discard Tube" if the DNA/RNA Shield™ Blood Collection Tube is the only tube being drawn.
4. Labels for identification of samples.
5. Alcohol swab.
6. Dry sterile gauze.
7. Tourniquet.
8. Needle disposal container for used needle or needle/holder combination.

Instructions

1. Ensure the blood collection tube is at 18–25°C prior to use and properly labeled with specimen identification.
2. If the DNA/RNA Shield™ Blood Collection Tube is the only tube to be drawn, blood should be drawn first into a "Discard Tube" to prime the blood collection set.

The DNA/RNA Shield™ Blood Collection Tube should be the last tube drawn into.

3. Allow at least 10 seconds for a complete blood draw to take place. Ensure that the blood has stopped flowing into the tube before removing the blood collection tube from the holder.
4. Immediately after blood collection, gently invert the tube 10 times to ensure homogenization.
5. Samples are now stabilized, ready for transport or immediate purification of DNA and/or RNA.

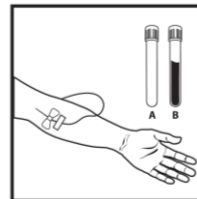
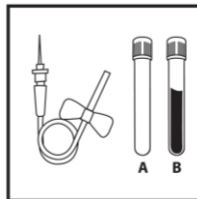
Sample Purification

Samples in DNA/RNA Shield™ can be input directly into Zymo Research's (and others) nucleic acid purification kits.

Draw Order:

Tube A - Discard Tube

Tube B - DNA/RNA Shield Blood 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 pk) R1107 (50 pk)	12 x 80 mm screwcap container filled with 1 mL DNA/RNA Shield™ and a sterile swab for specimen collection.