

Sample Collection and Transportation Made Simple®



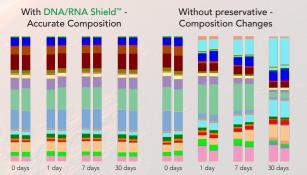


Transport Any Sample, Anywhere

DNA/RNA Shield™ preserves the genetic integrity of a sample at point of collection for sensitive down-stream analyses (i.e., Next-Gen Sequencing, RT-PCR, etc.). Any sample type can be stored in DNA/RNA Shield™ for transport at ambient temperature, even in the most extreme conditions.

Scientists at NASA are utilizing DNA/RNA Shield™ to collect biological specimens from astronauts to assess how the human microbiome is affected by a microgravity environment. DNA/RNA Shield™ serves a vital role in preserving the genetic profiles of their samples in everchanging and uncontrollable conditions.





Microbial composition of stool is unchanged after one month at ambient temperature with DNA/RNA Shield™. The extracted DNA was subjected to microbial composition profiling via 16S rRNA gene targeted sequencing.

Safety at All Levels

DNA/RNA Shield™ lyses and effectively inactivates pathogens in a sample. This includes tough-to-lyse microbes or viruses without the need for additional steps, such as heat-treatment, homogenization, or alcohol sterilization.

DNA/RNA Shield[™] has been rigorously tested to ensure its capability to inactivate even the toughest of viruses. In an independent study, the virucidal activity was shown to inactivate murine parvovirus.¹ DNA/RNA Shield™ abides by the Center for Disease Control's (CDC) guidelines for pathogen inactivation.²







Handling



Processing







Bacteria

B. subtilis, E. faecalis, E. coli, L. fermentum, L. monocytogenes, M. tuberculosis, P. aeruginosa, S. enterica, S. aureus, S. pneumoniae, X. fastidiosa

Viruses

Parvovirus, Chikungunya Virus, Dengue Virus, Ebola Virus, Herpes Simplex Virus-1, Herpes Simplex Virus-2, Influenza A, Rhinovirus, MERS-coronavirus, West Nile Virus

Yeast & Eukaryotes

C. albicans, C. neoformans, S. cerevisiae, P. malariae

- Dr. Thraenhart and Dr. Jursch Virucidal activity of the nucleic acid preservation product "DNA/RNA Shield" against the murine parvovirus (MVM) at 20 °C.
- Guidance on the inactivation or removal of select agents and toxins for future use. Center for Disease Control (CDC)

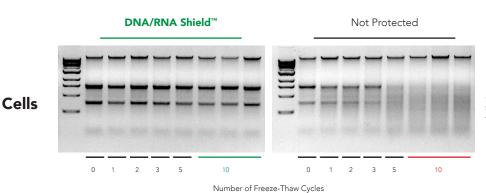
Peace of Mind

Protect Samples From Freeze-Thaw Degradation

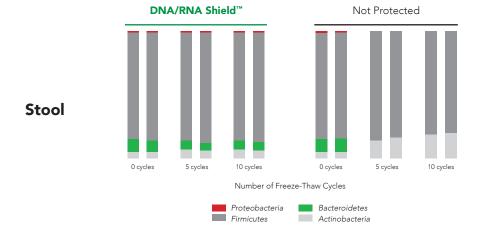
Today's most common practice for storing biological specimen, whether it be short or long-term, is the use of freezers. Unfortunately, freezers are not impervious to failing for a number of reasons - more notably mechanical failure and power outages.

DNA/RNA Shield^{\mathbb{M}} provides peace of mind to scientists, as it preserves the genetic integrity even under stressful freeze-thaw cycles, ensuring that precious samples will not be lost due to such events. DNA/RNA Shield^{\mathbb{M}} can be purchased as a bulk liquid reagent, in pre-filled devices, and ordered in custom filled devices to meet any user's need.

Prevent the Effects of Freeze-Thaw Cycling



High quality RNA from cells stored in DNA/RNA Shield™ after up to 10 freeze-thaw cycles. In unprotected samples, RNA integrity begins to decline after just one freeze-thaw cycle.



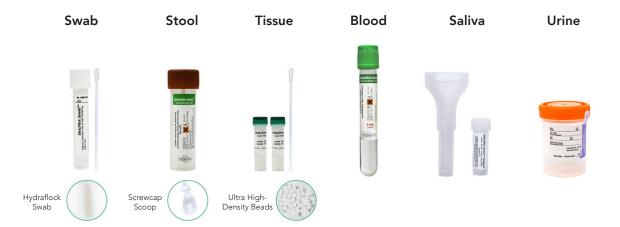
High-quality DNA from stool stored in DNA/RNA Shield™ after up to 10 freeze-thaw cycles. Microbial composition profiling via 16S rRNA gene targeted sequencing.

DID YOU KNOW?

One of the world's largest repositories of autism brain samples suffered a freezer failure in its tissue bank, losing a third of its samples. Researchers reported at the time that the priceless collection took over 14 years to collect and could set autism research back by a decade.¹

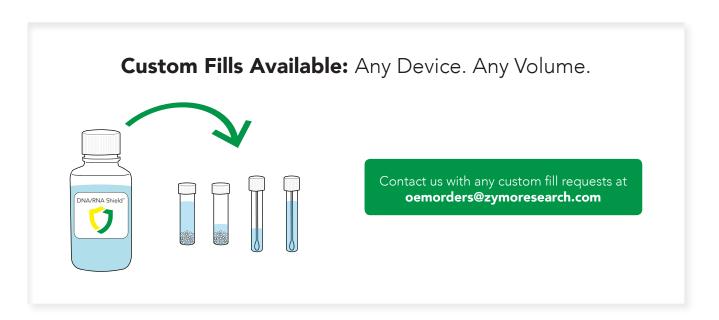


Prefilled Devices



| Product | Cat. No. | Size |
|---|----------------|--------------------|
| DNA/RNA Shield™ - Fecal Collection Tube | R1101 | 10 pack |
| DNA/RNA Shield™ Collection Tube | R1102 | 50 pack |
| DNA/RNA Shield™ Lysis Tube (Microbe) | R1103 | 50 pack |
| DNA/RNA Shield™ Lysis Tube (Microbe) w/ Swab | R1104 | 50 pack |
| DNA/RNA Shield™ Lysis Tube (Tissue) | R1105 | 50 pack |
| DNA/RNA Shield™ Collection Tube w/ Swab (1 ml fill) | R1106 R1107 | 10 pack 50 pack |

| Product | Cat. No. | Size |
|--|-----------------------|--------------------|
| DNA/RNA Shield™ Collection Tube w/ Swab (2 ml fill) | R1108 R1109 | 10 pack 50 pack |
| Urine Collection Kit w/ Urine Conditioning Buffer | D3062 | 10 pack |
| DNA/RNA Shield™ - Blood Collection Tube | R1150 | 50 pack |
| DNA/RNA Shield™ Saliva Collection Kit | R1210 | 1 unit |
| DNA/RNA Shield™ | R1100-50 R1100-250 | 50 ml 250 ml |
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Cat. No. B1010 Version 04