Sample Collection & Preservation
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Ordering

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1. INTRODUCTION

The collection and transportation of samples for subsequent nucleic analysis is usually challenging due to nucleic acid degradation, modifications caused by environmental factors, or the presence of pathogens in the sample. Most collection and transportation methods require the use of a cold-chain to prevent or slow down the degradation process. In addition, shipping of biological samples often requires a series of pathogen-inactivation steps.

We offer a wide range of sample collection devices that are tailored to the needs of scientists in the lab and out in the field.

The collection devices are filled with reagents that

• preserve the nucleic acid content of the sample
• stabilize the sample for transport and storage at ambient temperature
• renders the sample non-infectious for safe transport and handling

Picture 1 Stability of genomic DNA isolated from a saliva sample preserved from 1 week (1w) to 75 months (75m) at ambient temperature. Norgen Biotek
Viruses, bacteria and yeast are effectively inactivated by DNA/RNA Shield™. Samples containing the infectious agents were treated with DNA/RNA Shield™ or mock (PBS) treated for 5 minutes. Titer (PFU) was subsequently determined by plaque assay. Zymo Research

Picture 2 RNA in stool is effectively stabilized in DNA/RNA Shield™ at ambient temperature. Graphs show spike-in DNA and RNA controls from stool purified at the indicated time-point and analyzed by (RT)qPCR. Zymo Research
The Saliva Collection and Preservation Devices are designed for simple and non-invasive saliva collection and subsequent preservation of nucleic acids in saliva samples at ambient temperature. The Saliva Preservative is an aqueous storage buffer designed for rapid cellular lysis that also renders the samples non-infectious and allows for safe transport and handling. Nucleic acids can be isolated from the stored saliva samples using most commercially available isolation kits. The isolated nucleic acids are of high quality and are suitable for all downstream applications such as PCR, microarrays, SNP analysis, methylation studies, sequencing, etc.

**Saliva DNA Collection and Preservation Device** (Norgen Biotek)

- Collection volume: 2 ml saliva
- DNA preservation: 5 years at RT
- Renders samples non-infectious
- Transport and storage of samples at RT
- Package size: 50 individually packed devices

Research use only: Catalog # 298-RU4900
CE marked for diagnostic use: Catalog # 298-4900

**Saliva DNA Collection, Preservation and Isolation Kit** (Norgen Biotek)

- Collection volume: 2 ml saliva
- DNA preservation: 5 years at RT
- Renders samples non-infectious
- Transport and storage of samples at RT
- Package size: 50 individually packed devices and reagents for 50 DNA isolations

Research use only: Catalog # 298-RU35700
CE marked for diagnostic use: Catalog # 298-35700

**Saliva RNA Collection and Preservation Device** (Norgen Biotek)

- Collection volume: 2 ml saliva
- RNA preservation: 2 months at RT
- Renders samples non-infectious
- Transport and storage of samples at RT
- Package size: 50 individually packed devices

Research use only: Catalog # 298-RU53800
3. SWAB

The Swab Collection and Preservation Systems are designed for sample collection using a swab from feces and saliva, as well as nasal, buccal, skin and any other surfaces. Nucleic acids are stabilized and samples are rendered non-infectious, allowing for safe storage and handling at ambient temperature. Nucleic acids can be isolated from the stored samples using most commercially available isolation kits. The isolated nucleic acids are of high quality and are suitable for all downstream applications such as PCR, microarrays, SNPs, methylation studies, sequencing, etc.

**Swab Collection and DNA Preservation Kit** (Norgen Biotek)

Collect samples from: nose, mouth, saliva, feces, skin, surfaces
Preservative: 1.2 ml
DNA preservation: 2 years at RT
Renders samples non-infectious
Transport and storage of samples at RT
Package size: 50 individually packed devices

Research use only: Catalog # 298-45690

**DNA/RNA Shield™ Swab Collection** (Zymo Research)

Collect samples from: nose, mouth, saliva, feces, skin, and surfaces
12 x 80 mm screwcap vial prefilled with DNA/RNA Shield™
DNA preservation: 2 years at RT
RNA preservation: 1 month at RT
Renders samples non-infectious
Transport and storage of samples at RT

<table>
<thead>
<tr>
<th>Product</th>
<th>Size</th>
<th>Catalog #</th>
</tr>
</thead>
<tbody>
<tr>
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<td>10 pack</td>
<td>BioSite-R1106</td>
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<tr>
<td>DNA/RNA Shield™ Collection Tube w/ Swab (1ml fill)</td>
<td>50 pack</td>
<td>BioSite-R1107</td>
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<tr>
<td>DNA/RNA Shield™ Collection Tube w/ Swab (2ml fill)</td>
<td>10 pack</td>
<td>BioSite-R1108</td>
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<tr>
<td>DNA/RNA Shield™ Collection Tube w/ Swab (2ml fill)</td>
<td>50 pack</td>
<td>BioSite-R1109</td>
</tr>
</tbody>
</table>
4. STOOL

The stool collection devices contain a preservation solution that stabilizes both DNA and RNA, inactivates pathogens such as bacteria, fungi and viruses and reduces odor. Samples can subsequently be transported, stored and handled safely at ambient temperature.

**Stool Nucleic Acid Collection and Preservation Tubes** (Norgen Biotek)

Stool input: 2 g  
DNA preservation: 2 years at RT  
RNA preservation: 7 days at RT  
Renders samples non-infectious  
Transport and storage of samples at RT  
Package size: 50 individually packed devices

Research use only: Catalog # 298-45660  
CE marked for diagnostic use: Catalog # 298-Dx45660

**Stool Nucleic Acid Collection and Preservation System** (Norgen Biotek)

Stool input: 2 g  
DNA preservation: 2 years at RT  
RNA preservation: 7 days at RT  
Renders samples non-infectious  
Transport and storage of samples at RT  
Package size: 50 individually packed devices incl. Alcohol Swabs, Fe-col® Collection Paper and Nitrile Gloves

Research use only: Catalog # 298-63700

**DNA/RNA Shield™ Fecal Collection** (Zymo Research)

Stool input: 1 g  
DNA preservation: 2 years at RT  
RNA preservation: 1 month at RT  
Renders samples non-infectious  
Transport and storage of samples at RT  
Package size: 10 tubes

Research use only: Catalog # Biosite-R1101
**Fecal DNA Collection & Preservation Mini Tubes** (Norgen Biotek)
- Stool input: 30 mg
- DNA preservation: 27 months at RT
- Renders samples non-infectious
- Transport and storage of samples at RT
- Package size: 12 tubes containing preservative and beads

Research use only: Catalog # 298-27650

**Fecal Swab Collection and Preservation System** (Norgen Biotek)
- Stool input: 30 mg
- DNA preservation: 2 years at RT
- RNA preservation: 7 days at RT
- Renders samples non-infectious
- Transport and storage of samples at RT
- Package size: 50 individually packed devices

Research use only: Catalog # 298-45670
5. BLOOD

We offer blood storage devices for the stabilization and preservation of nucleic acids from blood cells, the preservation of cell-free circulating nucleic acids, or the stabilization of blood cells for immunophenotyping. Conveninetly collect whole blood directly into the vacuum tubes and store/transport your sample safely at ambient temperature.

Stabilization of nucleic acids (DNA/RNA)
The nucleic acid stabilization buffers are designed for rapid cellular lysis and subsequent preservation of nucleic acids from fresh blood samples.

**DNA/RNA Shield™ Blood Sample Collection (Zymo Research)**

- Blood draw volume: 3 ml
- DNA preservation: 2 years at RT
- RNA preservation: 1 month at RT
- Renders samples non-infectious
- Transport and storage of samples at RT
- Package size: 50 tubes

Research use only: Catalog # Biosite-R1150

**DNA/RNA Shield™ (2X concentrate) (Zymo Research)**

- DNA preservation: 2 years at RT
- RNA preservation: 1 month at RT
- Renders samples non-infectious
- Transport and storage of samples at RT
- Research use only

<table>
<thead>
<tr>
<th>Size</th>
<th>Catalog #</th>
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</thead>
<tbody>
<tr>
<td>25 ml</td>
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<tr>
<td>125 ml</td>
<td>Biosite-R1200-125</td>
</tr>
</tbody>
</table>

**Blood DNA Preservation Buffer (3X concentrate) (Norgen Biotek)**

- DNA preservation: 2 weeks at RT
- Renders samples non-infectious
- Transport and storage of samples at RT
- Research use only

<table>
<thead>
<tr>
<th>Size</th>
<th>Catalog #</th>
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<tbody>
<tr>
<td>25 ml</td>
<td>298-29111</td>
</tr>
<tr>
<td>100 ml</td>
<td>298-29112</td>
</tr>
</tbody>
</table>
Cell-Free DNA or RNA BCT® (Streck)

Cell-Free BCT are blood collection tubes with a patented preservative which stabilizes cell-free DNA or RNA in plasma and prevents the release of non-target background nucleic acids from nucleated blood cells during sample processing and storage.

Blood Draw Volume: 10.0 ml or 2.0 ml (DNA only)

cfDNA/gDNA Sample Stability: 14 days at 6°C to 37°C
Circulating Tumor Cells (CTC) Sample Stability: 7 days at 15°C to 30°C
cfRNA stability: 7 days at 6°C to 37°C

<table>
<thead>
<tr>
<th>Product</th>
<th>Size</th>
<th>Catalog #</th>
</tr>
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<tbody>
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<tr>
<td>Cell-Free DNA BCT®</td>
<td>100 tube box</td>
<td>309-218962</td>
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<tr>
<td>Cell-Free DNA BCT®</td>
<td>1,000 tube case</td>
<td>309-218992</td>
</tr>
<tr>
<td>Cell-Free DNA BCT CE</td>
<td>6 tube</td>
<td>309-218996</td>
</tr>
<tr>
<td>Cell-Free DNA BCT CE</td>
<td>100 tube</td>
<td>309-218997</td>
</tr>
<tr>
<td>Cell-Free DNA BCT CE</td>
<td>1000/case</td>
<td>309-230244</td>
</tr>
<tr>
<td>Cell-Free DNA BCT® 6 x 2.0 ml</td>
<td></td>
<td>309-230242</td>
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<tr>
<td>Cell-Free DNA BCT® 100 x 2.0 ml</td>
<td></td>
<td>309-230243</td>
</tr>
<tr>
<td>Cell-Free DNA BCT CE</td>
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<td>309-230250</td>
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<tr>
<td>Cell-Free DNA BCT CE</td>
<td>100 x 2.0 ml</td>
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<td>309-230252*</td>
</tr>
<tr>
<td>Cell-Free DNA BCT® 100 vials Plastic</td>
<td></td>
<td>309-230253*</td>
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<tr>
<td>Cell-Free DNA BCT® 1,000 vials Plastic</td>
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<td>309-230254*</td>
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<td>309-230256*</td>
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<td>Cell-Free DNA BCT CE</td>
<td>1000/case Plastic</td>
<td>309-230257*</td>
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<td>309-218975</td>
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<td>Cell-Free RNA BCT®</td>
<td>100 tube box</td>
<td>309-218976</td>
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<tr>
<td>Cell-Free RNA BCT CE</td>
<td>6 tube</td>
<td>309-230248</td>
</tr>
<tr>
<td>Cell-Free RNA BCT CE</td>
<td>100 tube</td>
<td>309-230249</td>
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<td>309-230308*</td>
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<tr>
<td>Cell-Free RNA BCT® 100 vials Plastic</td>
<td></td>
<td>309-230309*</td>
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<tr>
<td>Cell-Free RNA BCT CE</td>
<td>6 vials Plastic</td>
<td>309-230310*</td>
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<tr>
<td>Cell-Free RNA BCT CE</td>
<td>100 vials Plastic</td>
<td>309-230311*</td>
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</table>

*to be launched during Q3 or Q4 2017
**cf-DNA Preservative Tubes (Norgen Biotek)**

Blood draw volume: 8.3 ml  
Plasma recovery: 6-7 ml  
cf-DNA preservation: 30 days at RT or 8 days at 37°C  
Inhibits apoptosis of blood cells  
Transport and storage of samples at RT  
Research use only

<table>
<thead>
<tr>
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<th>Catalog #</th>
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<tr>
<td>50 tubes</td>
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</tr>
<tr>
<td>100 tubes</td>
<td>298-63960</td>
</tr>
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</table>

**Stabilization of blood cells for immunophenotyping**

TransFix® is a cellular antigen stabilization solution that prevents cellular degradation in a variety of specimen types for flow cytometric analysis: whole blood, cerebrospinal fluid (CSF), bone marrow, circulating tumour cells and animal blood.

**TransFix®/EDTA Vacuum Blood Collection Tubes - CE/IVD (Cytomark)**

- Cellular antigen stabilization: 14 days at 2-8°C

<table>
<thead>
<tr>
<th>Blood draw volume</th>
<th>Size</th>
<th>Catalog #</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 ml</td>
<td>1 tube</td>
<td>TVT-03-1</td>
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<tr>
<td></td>
<td>2 tubes</td>
<td>TVT-03-2</td>
</tr>
<tr>
<td></td>
<td>50 tubes</td>
<td>TVT-03-50</td>
</tr>
<tr>
<td>9 ml</td>
<td>1 tube</td>
<td>TVT-09-1</td>
</tr>
<tr>
<td></td>
<td>2 tubes</td>
<td>TVT-09-2</td>
</tr>
<tr>
<td></td>
<td>50 tubes</td>
<td>TVT-09-50</td>
</tr>
</tbody>
</table>

**Cyto-Chex® BCT (Streck)**

Cellular antigen stabilization: 14 days at 18°C to 22°C and up to 7 days at 30°C  
Contains K3EDTA as an anticoagulant

<table>
<thead>
<tr>
<th>Product</th>
<th>Size</th>
<th>Catalog #</th>
</tr>
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<tbody>
<tr>
<td>Cyto-Chex® BCT</td>
<td>5.0 ml, 6 tube pack</td>
<td>309-213361</td>
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<tr>
<td>Cyto-Chex® BCT</td>
<td>5.0 ml, 25 tube box</td>
<td>309-213362</td>
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<tr>
<td>Cyto-Chex® BCT</td>
<td>5.0 ml, 100 tube box</td>
<td>309-213386</td>
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<tr>
<td>Cyto-Chex® BCT</td>
<td>2.0 ml, 6 tube pack</td>
<td>309-213559</td>
</tr>
<tr>
<td>Cyto-Chex® BCT</td>
<td>2.0 ml, 100 tube box</td>
<td>309-218980</td>
</tr>
<tr>
<td>Cyto-Chex® BCT</td>
<td>4.0 ml, 6 tubes Plastic</td>
<td>309-230304</td>
</tr>
<tr>
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<td>4.0 ml, 25 tubes Plastic</td>
<td>309-230305</td>
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<tr>
<td>Cyto-Chex® BCT</td>
<td>4.0 ml, 100 tubes Plastic</td>
<td>309-230306</td>
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</table>

**TransFix® Sample Storage Tubes - CE/IVD (Cytomark)**

Cellular antigen stabilization: 14 days at 2-8°C  
1.2 ml tubes containing 0.2 ml of TransFix  
No anticoagulant

<table>
<thead>
<tr>
<th>Size</th>
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<tbody>
<tr>
<td>2 tubes</td>
<td>TF-01-2</td>
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<tr>
<td>10 tubes</td>
<td>TF-01-10</td>
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<tr>
<td>25 tubes</td>
<td>TF-01-25</td>
</tr>
<tr>
<td>50 tubes</td>
<td>TF-01-50</td>
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</table>
TransFix/EDTA CSF Sample Storage Tubes - RUO (Cytomark)

Cellular antigen stabilization: 14 days at 2-8°C
Tubes containing 0.2 ml of TransFix stabilize 5 ml of CSF
Research use only

<table>
<thead>
<tr>
<th>Size</th>
<th>Catalog #</th>
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<tbody>
<tr>
<td>2 tubes</td>
<td>TF-CSF-01-2</td>
</tr>
<tr>
<td>10 tubes</td>
<td>TF-CSF-01-10</td>
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<td>25 tubes</td>
<td>TF-CSF-01-25</td>
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<tr>
<td>50 tubes</td>
<td>TF-CSF-01-50</td>
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</table>

TransFix bulk - CE/IVD (Cytomark)

Cellular antigen stabilization: 14 days at 2-8°C

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1 ml/tube</td>
<td>TFB-01-1</td>
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<tr>
<td>10 tubes</td>
<td>TFB-01-10</td>
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<td>20 ml/tube</td>
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Streck Cell Preservative™ (Streck)

Streck Cell Preservative is used as a liquid preservative for bone marrow aspirates, surgical tissue samples, fine needle aspirates and peripheral and cord blood.
Sample preservation: 7 days at RT

<table>
<thead>
<tr>
<th>Product</th>
<th>Size</th>
<th>Catalog #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Streck Cell Preservative™</td>
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<td>309-213350</td>
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<td>Streck Cell Preservative™</td>
<td>24 x 1.0 ml</td>
<td>309-213352</td>
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<tr>
<td>Streck Cell Preservative™</td>
<td>50 x 1.0 ml</td>
<td>309-213355</td>
</tr>
<tr>
<td>Streck Cell Preservative™</td>
<td>2 x 10 ml vial</td>
<td>309-213358</td>
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</table>

TransFix Phlebotomy Packs - CE/IVD (Cytomark)

Cellular antigen stabilization: 14 days at 2-8°C
Each pack contains one safety holder with an integrated and orientated needle and one TransFix/EDTA Vacuum Blood Collection Tube.
Available for the stabilization of 3 ml or 9 ml of blood
Needle is available in 6 different sizes
6. URINE

The urine collection and preservation devices are designed for the rapid stabilization of fresh urine samples. The samples are rendered non-infectious for safe handling and shipping at ambient temperature.

**Urine Preservative Single Dose (Norgen Biotek)**

Urine input: 5-50 ml  
Preservation of RNA/microRNA/DNA/Proteins: > 2 years at RT  
Renders samples non-infectious  
Transport and storage of samples at RT  
Preserves cell-free macromolecules, exfoliated cells and microorganisms  
Research use only

<table>
<thead>
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<th>Size</th>
<th>Catalog #</th>
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<tbody>
<tr>
<td>1 ampule</td>
<td>298-18124</td>
</tr>
<tr>
<td>50 ampules</td>
<td>298-18126</td>
</tr>
</tbody>
</table>

**Urine Collection and Preservation Tubes (Norgen Biotek)**

Preservation of RNA/microRNA/DNA/Proteins: > 2 years at RT  
Renders samples non-infectious  
Transport and storage of samples at RT  
Preserves cell-free macromolecules, exfoliated cells and microorganisms  
Research use only

<table>
<thead>
<tr>
<th>Size</th>
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<td>298-18116</td>
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<td>5-15 ml</td>
<td>298-18120</td>
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<td>5-15 ml</td>
<td>298-18122</td>
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<td>298-18111</td>
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<td>5-45 ml</td>
<td>298-18113</td>
</tr>
</tbody>
</table>

Stability of DNA, RNA and protein in Norgen’s urine preservative. Urine collected into a Urine Collection and Preservation Tube was stored at -20°C, 4°C, ambient temperature or 55°C for 6 months. DNA, RNA and protein were isolated at time points 0, 1, 2, 4 and 6 months from the preserved urine sample. The isolated DNA was used as a template in a real-time PCR reaction to detect the 5S gene; the isolated RNA was used as a template in a reverse-transcription PCR reaction to detect the 5S gene; the isolated proteins were analyzed on a 12% SDS-PAGE gel.
**Urine Conditioning Buffer (UCB) (Zymo Research)**

Urine input: 70 µl UCB per 1 ml urine  
Preservation of RNA/DNA: 1 month at RT  
Renders samples non-infectious  
Transport and storage of samples at RT  
Research use only

<table>
<thead>
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<tr>
<td>140 ml</td>
<td>Biosite-D3061-1-140</td>
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</tbody>
</table>

**Urine Collection Kit (Zymo Research)**

Urine input: up to 100 ml  
Preservation of RNA/DNA: 1 month at RT  
Renders samples non-infectious  
Transport and storage of samples at RT  
Package size: 10 devices incl. urine collection cup and urine conditioning buffer  
Research use only: Catalog # Biosite-D3062

**Cell-Free DNA Urine Preserve (Streck)**

Urine input: 25-100 ml  
Stabilizes all cellular components and cfDNA  
Preservation of cfDNA: 7 days at 6°C to 37°C

<table>
<thead>
<tr>
<th>Product</th>
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<th>Catalog #</th>
</tr>
</thead>
<tbody>
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<td>309-230216</td>
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<tr>
<td>Cell-Free DNA Urine Preserve</td>
<td>5 x 5 ml</td>
<td>309-230230</td>
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7. MICROBIAL SAMPLES

During the collection and transportation phase, microbes can continue to grow and decay and nucleic acids can degrade due to exposure to nucleases, elevated temperatures, pH extremes, and other harsh conditions. These factors can lead to overall misrepresentation of the original community profile, causing downstream bias. The collection devices and sample stabilization buffer DNA/RNA Shield™ are designed to provide an unbiased molecular snapshot of your sample at the time of collection, thus ensuring accurate microbial community profiling, genetic identification and expression profiling. Samples can be collected from the environment, animals, cultured organisms, or from anywhere where microbes are the target of analysis.

**DNA/RNA Shield™ Lysis Tube w/ Swab (Microbe) (Zymo Research)**

- 2 ml screwcap tube filled with 1 ml DNA/RNA Shield™ and ultra-high density Bashingbeads™ (0.5 mm & 0.1 mm beads)
- Nylon swab with 20 mm breakpoint
- DNA preservation: 2 years at RT
- RNA preservation: 1 month at RT
- Renders samples non-infectious
- Transport and storage of samples at RT
- Package size: 50 tubes

Research use only: Catalog # Biosite-R1104

**DNA/RNA Shield™ Lysis Tube (Microbe) (Zymo Research)**

- 2 ml screwcap tube filled with 1 ml DNA/RNA Shield™ and ultra-high density Bashingbeads™ (0.5 mm & 0.1 mm beads)
- DNA preservation: 2 years at RT
- RNA preservation: 1 month at RT
- Renders samples non-infectious
- Transport and storage of samples at RT
- Package size: 50 tubes

Research use only: Catalog # Biosite-R1103

**DNA/RNA Shield™ Collection Tube (Zymo Research)**

- 2 ml screwcap tube filled with 1 ml DNA/RNA Shield™
- DNA preservation: 2 years at RT
- RNA preservation: 1 month at RT
- Renders samples non-infectious
- Transport and storage of samples at RT
- Package size: 50 tubes

Research use only: Catalog # Biosite-R1102
8. TISSUE

Tissue samples, whole insects and a variety of other environmental samples (soil, plant material, feces, etc.) can be stabilized in DNA/RNA Shield™. The samples are rendered non-infectious and can be safely handled and stored at ambient temperature. The genetic integrity and expression profiles of the sample is preserved and the samples can be processed with most commercially available nucleic acid isolation kits without the need for removal of the DNA/RNA Shield™.

**DNA/RNA Shield™ (Zymo Research)**

100 mg tissue per 1 ml DNA/RNA Shield™  
DNA preservation: 2 years at RT  
RNA preservation: 1 month at RT  
Renders samples non-infectious  
Transport and storage of samples at RT  
Research use only

<table>
<thead>
<tr>
<th>Size</th>
<th>Catalog #</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 ml</td>
<td>Biosite-R1100-50</td>
</tr>
<tr>
<td>250 ml</td>
<td>Biosite-R1100-250</td>
</tr>
</tbody>
</table>

**DNA/RNA Shield™ Lysis Tube (Tissue) (Zymo Research)**

2 ml screwcap tube filled with 1 ml DNA/RNA Shield™ and ultra-high density Bashingbeads™ (2 mm beads)  
DNA preservation: 2 years at RT  
RNA preservation: 1 month at RT  
Renders samples non-infectious  
Transport and storage of samples at RT  
Package size: 50 tubes

Research use only: Catalog # Biosite-R1105
9. MILK

This kit provides a rapid all-in-one procedure for the preservation and isolation of milk DNA at ambient temperatures. The milk samples are stable for 1 month at room temperature (or 1 week at 37°C) in the preservation solution and high quality DNA from somatic cells and bacteria present in the milk can be isolated and detected from as little as 100 µL of milk.

**Milk DNA Preservation and Isolation (Norgen Biotek)**

Collection volume: 0.5 ml milk
DNA preservation: 1 month at RT
Renders samples non-infectious
Transport and storage of samples at RT
Package size: 25 preparations

Research use only: Catalog # 298-44800

Collect milk sample into vials containing **Preservation Solution E (1:1)**

1. Transfer
2. Add Proteinase K, incubate at 55°C for 1 hour. Add Purification Additive and Isopropanol
3. SPIN
4. Transfer supernatant. Add Buffer SK
5. SPIN
6. Bind
7. SPIN
8. Wash twice with Wash Solution A. Dry Spin
9. SPIN
10. Elute DNA with Elution Buffer B
11. SPIN
12. Pure DNA
10. ACCESSORIES

**Sterile Individually Wrapped Swabs (Norgen Biotek)**

Collect samples: saliva  
Package size: 50 individually packed devices  
Research use only: Catalog # 298-RU49060

**Shipping Accessories - 50 Mailers (Norgen Biotek)**

All shipping requirements in one convenient mailer:
- Leak-proof biohazard bags with adsorbent pads for enhanced safety
- A Bubble Envelope
- 2 blank labels
Matches the standards of OSHA as well as the IATA regulations  
Package size: 50  
Research use only: Catalog # 298-38300

**Urine Collection Cup (120 ml) (Zymo Research)**

Collect samples: 100 ml urine  
Package size: 10 cups  
Research use only: Catalog # Biosite-D3062-1

**TerraLyzer™ (Zymo Research)**

- For cordless, portable, and convenient homogenization of tough-to-have biological and environmental samples
- Allows the researcher to “Take the Lab to the Field” and to the site of sample collection with Zymo Research’s state of the art products for environmental DNA and RNA purification
- Ideal for both field and lab use

Size | Catalog #  
--- | ---  
1 unit | Biosite-S6022

REVISED 27/06/2017
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