

INSTRUCTIONS FOR USE

GenSaver™ 2.0 Card

GenSaver™ Color 2.0 Card

Warning

For research use only.

Not for use in diagnostic procedures.

Description

GenSaver™ 2.0 and GenSaver™ Color 2.0 specimen collection cards are specifically designed for collection and transport of microvolumes of biological samples and long-term preservation of DNA at ambient temperature. These cards contain a fiber-based material made of pure absorbent fibers coated with a proprietary stabilizing formulation intended to prevent environmentally induced degradation for long-term preservation of DNA at ambient temperature. Growth of microorganisms in samples collected on GenSaver™ 2.0 and GenSaver™ Color 2.0 cards is inhibited.

GenSaver™ 2.0 card is recommended for collection of blood while GenSaver™ Color 2.0 card is recommended for colorless biosamples such as saliva, buccal cells and urine and turns white on the area on which the biological sample is collected.

Instructions

Application of blood samples (fresh whole blood or blood with anticoagulants excluding heparin):

1. Place the GenSaver™ 2.0 card on a clean, dry, flat surface.
2. Label the GenSaver™ 2.0 card.
3. Drop the blood sample onto the card at the center of a printed circle area ($\leq 125\mu\text{l}$ per circle for 1, 2, 4 spots designs and $\leq 5\mu\text{l}$ for the 96 spots design). The drop will quickly spread and soak in. Blood sample must be applied from the front side only.
4. Allow the blood sample to dry completely for at least 2 hours at room temperature by supporting the sample area with the paper cover. Do not heat to shorten the drying time. **Advice:** Dried blood spots appear darker than freshly spotted ones.
5. Avoid direct body contact with the blood spots.
6. When the GenSaver™ 2.0 card is dry, the sample is ready for downstream analysis or can be packaged for transport or storage at room temperature.
7. Label the transport package with an advice regarding biological sampling.

Application of buccal cells or colorless samples:

1. Place the GenSaver™ Color 2.0 card on a clean, dry, flat surface.

2. Label the GenSaver™ Color 2.0 card.

a) For buccal cells samples:

- Place a sterile foam-tipped applicator in the mouth. In order to soak up as much saliva as possible, run the foam head under the tongue and along the gum line and then rub one side of the foam tip on the inside of the cheek for 30 seconds. Repeat the same procedure using the opposite side of the foam tip for the other cheek.
- Remove the swab from the mouth and press the flat surface of the foam applicator tip within the printed circle area of the GenSaver™ Color 2.0 card. Without lifting the foam tip from the card, squeeze the tip using a side-to-side motion to completely saturate the sample area.
- Turn the swab over and repeat with the other side within the same printed circle area. The sample area will turn white indicating the location of sample. Saliva samples must be applied from the pink front side only. The foam swab is for single use only. Do not place into the mouth after it has been in contact with the GenSaver™ Color 2.0 card.
- Discard the foam swab according to laboratory procedure.
- Allow the saliva samples to completely dry for at least 2 hours at room temperature by supporting the sample area with the paper cover. Do not heat to shorten the drying time. Avoid direct body contact with the saliva spots.
- When the GenSaver™ Color 2.0 card is dry, the sample is ready for downstream analysis or can be packaged for transport or storage at room temperature.
- Label the transport package with an advice regarding biological sampling.

b) For colorless liquid samples:

- Drop the colorless sample onto the card at the center of a printed circle area ($\leq 125\mu\text{l}$ per circle for 1, 2, 4 spots designs and $\leq 5\mu\text{l}$ for the 96 spots design). The drop will quickly spread and soak in. Colorless samples must be applied from the front side only.
- Allow the samples to dry completely for at least 2 hours at room temperature by supporting the sample area with the paper cover. Do not heat to shorten the drying time. Avoid direct body contact with the colorless liquid spots.
- When the GenSaver™ Color 2.0 card is dry, the sample is ready for downstream analysis or can be packaged for transport or storage at room temperature.
- Label the transport package with an advice regarding biological sampling.

Remark for downstream PCR analysis:

Interference leading to negative results in polymerase chain reaction might be observed with heparin stabilized blood.

Preparation of samples for use in direct PCR:

GenSaver™ 2.0 card and GenSaver™ Color 2.0 card containing the biological samples can be used directly in the PCR amplification.

1. Per sample, punch 1mm diameter from the center of the sample area and transfer to 1.5 ml microcentrifuge tube.
2. Add 20µl of sterile water and incubate 3min at 50°C.
3. Using sterile pipette tip, remove the washed punch and transfer it in 96-well plate.
4. Let it dry about 30min.
5. Perform the PCR using amplification kit according to the manufacturer's instructions.

Precautions

- For hygienic reasons always wear gloves to avoid any contamination when handling GenSaver™ 2.0 cards. Biological samples are potentially infectious. Follow universal precautions when handling biological specimens.
- Do not touch sample collection area.
- Do not use damaged cards.

Storage

Before collection:

Store unused cards in their original packaging in a cool and dry environment. Protect from light and moisture.

After collection:

After collecting the biological samples, allow them to air dry at room temperature. The GenSaver™ 2.0 cards must be stored in a cool, dry and humidity <45% or in an aluminum foil pouch with a desiccant.

Transport

Make sure that the product is not being compressed during transport. Do not ship it together with chemicals. Cards can be transported in an envelope with desiccant inside.

Disposal

The disposal of the products must be in accordance with local statutory regulations.









For unused cards

Disposal together with normal waste is possible. Collection and disposal of these wastes are not subject to special requirements for prevention of infection.

For used cards

Disposal together with normal waste is not possible. Collection and disposal of these wastes are subject to special requirements for prevention of infection.

Legend

	Card Reference Number
	Batch Number
	Biological Risk For handling and disposal apply special requirements
	Please note the Instructions for Use
	Use by date
	Keep away from sunlight
	Do not re-use
	Warning Note

Contacts

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