

FTA® Technology

Collect, Transport, Archive and Isolate Nucleic Acids — All at Room Temperature!

FTA Cards utilize patented Whatman FTA Technology that simplifies the handling and processing of nucleic acids.

FTA Cards contain chemicals that lyse cells, denature proteins and protect nucleic acids from nucleases, oxidation and UV damage. FTA Cards rapidly inactivate organisms, including blood-borne pathogens, and prevent the growth of bacteria and other microorganisms. Try FTA, and you'll soon find it's an indispensable part of your DNA toolbox.

US Patent Nos. 5496562, 5756126, 5807527, 5972386, 5985327 and other patents pending

Features and Benefits

- Capture nucleic acid in one easy step
- Captured nucleic acid is ready for downstream applications in less than 30 minutes
- Nucleic acids collected on FTA Cards are stable for years at room temperature
- FTA Cards are stored at room temperature before and after sample application, reducing the need for laboratory freezers
- Suitable for virtually any cell type
- Indicating FTA Cards change color upon sample application to facilitate handling of colorless samples
- FTA Cards are available in a variety of configurations to meet application requirements
- Custom configurations are available on request

Applications

- Forensics
- Transgenics
- Transfusion Medicine
- Plasmid Screening
- Food & Agriculture Testing
- Drug Discovery
- Genomics
- STR Analysis
- Animal Identification
- Diagnostics
- Pharmacogenomics
- Molecular Biology

Capture Nucleic Acids in One Easy Step

Simply apply your sample to the FTA Card. Cell membranes and organelles are lysed and the released nucleic acids are entrapped in the fibers of the card. The nucleic acids remain immobilized and are stabilized for transport, immediate processing or long-term room temperature storage.

Since captured nucleic acids are stabilized, FTA Cards facilitate sample collection in remote locations and simplify sample transport. For example, you can collect samples deep in a rain forest without worrying about immediate refrigeration. Ship your samples back to the lab without expensive special handling or dry ice, and process at your convenience.

Indicating FTA Cards are recommended for colorless samples. These FTA Cards change from pink to white when sample is applied, verifying the location of the sample.



FTA Cards are available in a variety of sizes and formats.



Electron micrograph showing DNA entrapped within the FTA matrix (magnification x 10,000).

FTA Cards can be used with virtually any sample type

- Blood
- Cultured Cells
- Buccal Cells
- Plant Material
- Bacteria
- Plasmids
- Microorganisms
- Solid Tissue
- Viral Particles
- M13 Plaques
- ...and more

Captured Nucleic Acid is Ready for Downstream Applications in Less than 30 Minutes

Captured nucleic acids are ready for purification when you are. Just take a punch from the FTA Card, wash with FTA Purification Reagent and rinse with TE⁻¹ buffer. DNA on the washed punch is ready to use in applications such as PCR, RFLP analysis and RT-PCR. Since PCR products remain in solution, the punch can be used for multiple amplifications.

Store Nucleic Acids at Room Temperature for Years

Genomic DNA stored on FTA Cards at room temperature for over 14 years (and counting) has been successfully amplified by PCR. In contrast, genomic DNA stored at room temperature on non-FTA Cards for over six months did not amplify.

Sample integrity is optimized when FTA Cards are stored in a Multi-Barrier Pouch with a Desiccant Packet.

FTA Cards offer a compact room-temperature storage system that reduces the need for precious freezer space.

FTA Classic Card

Four sample areas for application of up to 500 μ L whole blood or 100 μ L plant homogenate per card. Convenient for multiple applications of the same specimen or collection of multiple animal or plant samples on one card. Different samples can be processed independently.

Indicating FTA Classic Card

Same as FTA Classic Card with a color indicator that changes from pink to white when sample is applied. Recommended for use with colorless samples such as buccal or culture cells.



FTA Micro Card



FTA Classic Card

FTA Mini Card

Two sample areas for application of up to 250 μ L whole blood or 50 μ L plant homogenate per card. Convenient for protocols that require different locations for testing and archiving samples. Different samples can be processed independently.

Indicating FTA Mini Card

Same as FTA Mini Card with a color indicator that changes from pink to white when sample is applied. Recommended for use with clear samples such as buccal or culture cells.

FTA Micro Card

One sample area for application of up to 125 μ L whole blood or 25 μ L plant homogenate per card. Recommended when only one sample is needed.

Indicating FTA Micro Card

Same as FTA Micro Card with a color indicator that changes from pink to white when sample is applied. Recommended for use with clear samples such as buccal or culture cells.

FTA Gene Card

An FTA card enclosed in a rigid card frame. Three sample areas for application of up to 225 μ L whole blood or 30 μ L plant homogenate per card.

Can be utilized in many automatic dispensing/pipetting systems when used with the FTA Gene Card Tray (WB100030).

BloodSaver™ Card

FTA Card in a 96 well format for 5 μ L blood samples. Used with the SPOT card holder (p. 125) in automated liquid handlers.

PlantSaver™ FTA Card

Plant friendly FTA Card, in a Classic Card format. Features a laminated flap that allows you to vigorously pound the plant sample into the FTA matrix without damaging the FTA Card.

FTA Kit

Includes: 25 FTA Micro Cards, 2 vials purification reagent (25 mL), 2 Harris Uni-Core Punches with cutting mat, instructions.



FTA Kit

FTA Starter Pack

Includes: 1 FTA Classic Card, 1 FTA Mini Card, 1 FTA Micro Card, 1 Indicating FTA Mini Card, 1 FTA Indicating Micro Card, 2 foam-tipped applicator swabs, 1 multi-barrier pouch and desiccant, 1 vial purification reagent (25 mL), 2 Harris Uni-Core Punches with cutting mat, instructions.



Blood Stain Card

Blood Stain Card

Contains non-FTA absorbent filter paper for the collection and transport of blood and body fluids. Intended for short-term handling of specimens and for protein or metabolite studies. For long-term storage of nucleic acids, Whatman FTA Cards are recommended. There are four sample areas for application of up to 500 μ L whole blood per card. Convenient for multiple applications of the same specimens or collection of multiple specimens on one card. Different samples can be processed independently.

Ordering Information

FTA Technology					
Catalog Number	Description	Cards/ Pack	Sample Areas/ Card	Maximum Volume/ Sample Area (μ L)	Maximum Total Volume/Card (μ L)
WB120067	FTA Kit	25	N/A	N/A	N/A
WB120061	FTA Starter Pack	N/A	N/A	N/A	N/A
WB120205	FTA Classic Card	100	4	125	500
WB120206	Indicating FTA Classic Card	100	4	125	500
WB120055	FTA Mini Card	100	2	125	250
WB120056	Indicating FTA Mini Card	100	2	125	250
WB120210	FTA Micro Card	100	1	125	125
WB120211	Indicating FTA Micro Card	100	1	125	125
WB120208	FTA Gene Card	100	3	75	225
WB120065	PlantSaver FTA Card	100	4	N/A	N/A
WB100014	Blood Stain Card, non-FTA	100	4	125	500
WB120217	FTA Card/Pouch/Desiccant	1000	N/A	N/A	N/A
WB120216	FTA Gene Card/Pouch/Desiccant	1000	N/A	N/A	N/A