

Whatman™ FTA™ for plant DNA

Whether you're in a lab or deep in a rain forest, Whatman FTA provides a remarkably easy way to isolate plant DNA. Simply pressing plant samples onto the FTA matrix or applying homogenate captures and stabilizes the DNA. Store indefinitely at room temperature. Ship safely and purify in 30 min. Try FTA, and you'll soon find it's an indispensable part of your plant DNA toolbox.



Features and benefits

- **Simple collection in the field:** Protection of nucleic acids from degradation at room temperature allows for convenient collection in the field.
- **Smaller sample size:** Only young leaves are required, reducing growing time and speeding research.
- **Safe room temperature storage and shipping:** Collect plant DNA samples anywhere, ship back to the lab and purify at your convenience.
- **Fast purification:** PCR-ready DNA can be purified on FTA in three simple steps, all in a single tube at room temperature.
- **Automatable automation:** Speeds handling of multiple FTA cards, reduces labor and standardizes DNA purification. Punches can easily be washed and prepared for PCR on a variety of liquid handling instruments.

Applications

- Analyze plant DNA by PCR-based assays
- Marker selected breeding
- Varietal identification
- Phylogeny analysis
- Amplification of low copy number loci
- Invader™ assays
- Multiple displacement amplification
- Transgenic identification

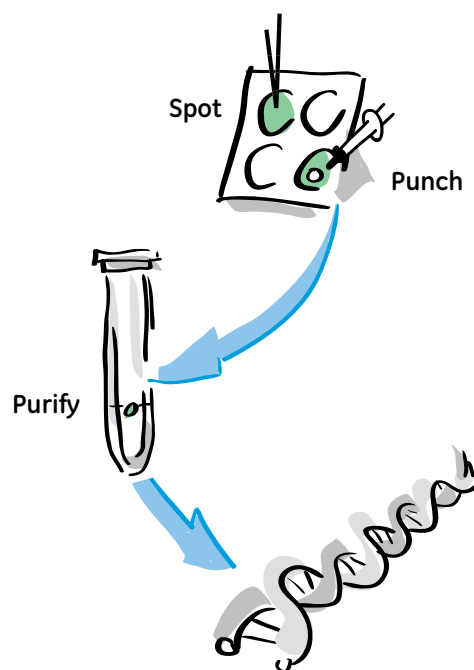
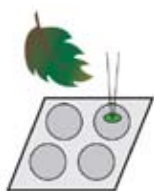


Fig 1. Three easy steps to pure DNA.





Sample application

Press plant tissue onto the card or apply homogenate. Allow to dry completely.



Disk removal

Punch a disk out of the FTA matrix impregnated with plant material.



FTA Purification Reagent washes

Place the disk in PCR tube and wash twice with FTA Purification Reagent. Discard used reagent after each wash.



TE⁻¹ Rinses

Wash twice with TE⁻¹ buffer (10 mM Tris, 0.1 mM EDTA, pH 8.0) and discard used buffer after each wash.



Drying Step

Dry disk in PCR tube.



Direct to PCR

Add PCR master mix directly to the disk and amplify.



Ordering information

Catalog number	Description	Qty/pack
WB120065	PlantSaver Card	100
WB120204	FTA Purification Reagent	500 ml
WB120205	FTA Classic Card (non-indicating)	100
WB120055	FTA Mini Card - 2 Spot (non-indicating)	100
WB120210	FTA Micro Card (non-indicating)	100
WB120208	FTA Gene Card	100
WB100005	Harris Micro Punch 1.2 mm	1
WB100006	Harris Micro Punch 1.2 mm Tip	1
WB100028	Harris Uni-core 1.25 mm Punch	4
WB100036	Multibarrier Pouch (small)	100
WB100037	Multibarrier Pouch (large)	100
WB100025	1.2 mm Replacement Plunger	1
WB100003	Desiccant	1000
WB100020	Replacement Cutting Mat	1
WB100030	FTA Gene Card Carrier	20

Fig 2. FTA Plant protocol overview.

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