

# Accuris™ Fast Extraction PCR Kit

## Description

The Accuris Fast Extraction PCR is engineered for the rapid, cost-efficient, and effective extraction and amplification of DNA from a wide array of solid tissues, such as mouse tails, ear punches, plant leaves, bacteria, and saliva. This kit is composed of a unique single-tube extraction solution that enables the release of genomic DNA in just 8 minutes. Following extraction, the PCR amplification process utilizes the Accuris High Fidelity Hot Start Master Mix, which is optimized for high-quality end-point PCR results. The inclusion of an inert red dye in the High Fidelity Hot Start Master Mix facilitates the direct loading of the PCR product onto a gel.

For enhanced versatility in laboratory applications, the genomic DNA prepared with this kit is immediately ready for use in end-point PCR and real-time PCR assays using SYBR Green or TaqMan Probe chemistries.

Upon receipt, immediately store at -20°C. Avoid excessive freeze/thaw cycles. When stored as directed, this product will retain its activity for 12 months from date of receipt. The product may also be stored at 4°C for up to one month.

## Limitations of Use

For research purposes only. Not intended for therapeutic or diagnostic use.

## Quality Control

Accuris enzymes and reagents are tested under general assay conditions for activity, reproducibility, efficiency, heat activation, sensitivity, and absence of nuclease contamination and nuclease activity.

This product is manufactured under a comprehensive quality management system, following ISO 9001:2008 standards.

## General Guidelines

### Template

- **Tissue:** Use 0.5 – 10 mg / 100uL Lysis Solution
- **Plant:** Use 2.0 – 10 mg / 100uL Lysis Solution
- **Saliva:** Use 10 – 20 uL / 100uL Lysis Solution
- **E. Coli:** Use 1 Colony (0.5 – 2mm) / 100uL Lysis Solution

### Reaction conditions

Most reactions can be carried out at a temperature of 42°C for 30 minutes. When working with templates that have a high GC content (above 65%), the temperature can be increased, up to 55°C, to alleviate any problems associated with secondary structure.

### Analysis

Results can be analyzed using agarose gel electrophoresis. The High Fidelity Hot Start Master Mix contains an inert red tracking dye which migrates at the rate of 600 bp and 350 bp DNA in 1% and 2% TAE agarose gels, respectively.

### Technical Support

For trouble-shooting and tech support, contact us at [info@accuris-usa.com](mailto:info@accuris-usa.com) or call 908 769-5555.

Accuris is not responsible for consequential or incidental damages, direct or indirect, resulting from use of this product. Accuris guarantees the performance of this product as described when used in accordance with these instructions.

## Reaction Setup

Thaw Lysis Solution. **Note:** The Lysis Solution has a cloudy appearance.

Component	25 µL reaction	Final concentration
2X HF Red Dye Mix	12.5 µL	1X
Forward Primer (10µM)	1.0 µL	400 nm
Reverse Primer (10µM)	1.0 µL	400 nm
DNA Extract	2.0 – 4.0uL	
PCR grade water	to 25uL final reaction volume	

### Protocol

1. The DNA extraction process can be carried out in 0.2 mL PCR Tubes or 0.5 mL/1.5 mL microcentrifuge tubes in a thermal cycler or heating block.
2. Thaw Lysis Solution. Please note that the Lysis Solution has a cloudy appearance.
3. Add your sample to a tube containing 100 µl of the Lysis Solution.
4. Vortex the tube containing the sample and the lysis solution for 15 seconds.
5. Transfer the tube to a heat block or a thermal cycler and prepare a DNA extract of PCR-ready DNA as follows:

Cycles	Temperature & Time	Notes
1	65°C, 6 minutes	Lysis
1	98°C, 2 minutes	Protease Deactivation
1	4°C	Cool on ice

## Package contents and reordering

**Accuris Fast Extraction PCR Kit**  
100 reactions  
Catalog number PR1400-FE-100

**Accuris Fast Extraction PCR Kit**  
400 reactions  
Catalog number PR1400-FE-400

**Accuris Fast Extraction Lysis Solution**  
100 reactions  
Catalog number PR1400-FLS-100

**Accuris Fast Extraction Lysis Solution**  
100 reactions  
Catalog number PR1400-FLS-400



## Fast Extraction PCR Kit

- PR1400-FE-S
- PR1400-FE-100
- PR1400-FE-400
- PR1400-FLS-S
- PR1400-FLS-100
- PR1400-FLS-400

Store at -20°C upon receipt.

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