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Yfiler™ Plus PCR Amplification Kit



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Applied Biosystems™

# Yfiler™ Plus PCR Amplification Kit

Note: The Yfiler Plus kit is now approved for use by laboratories generating DNA profiles for inclusion in the [Read more](#)

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Catalog Number	No. of Reactions
<a href="#">4484678</a>	100 Reactions
4482730	500 Reactions

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Price (MDL) / Each

-

[Contact Us](#)**No. of Reactions:**

100 Reactions

**Product Overview**[Figures](#)[Documents](#)[FAQ](#)

Note: The Yfiler Plus kit is now approved for use by laboratories generating DNA profiles for inclusion in the US National DNA Index System (NDIS) CODIS database.

The Yfiler Plus PCR Amplification Kit is designed for forensic laboratories that process highly challenging Y-STR casework and database samples. The Yfiler Plus kit is optimized to help improve resolution of trace evidence and sexual assault mixtures that contain small quantities of male DNA in a large background of female DNA and offers laboratories both the power of discrimination and the performance to enable accurate results in less time from challenging samples.

The Yfiler Plus PCR Amplification Kit is a 6-dye multiplex assay for short tandem repeats (STRs) that allows amplification from multiple male-specific sample types, such as male-male and male-female mixtures, and direct PCR amplification from single-source samples.

Key features of the Yfiler Plus PCR Amplification Kit:

- Improved discrimination capacity through new, highly discriminating markers
- Improved performance with degraded samples and PCR inhibitors
- Improved genotyping accuracy through expanded allelic ladder and virtual bins
- Concordance with existing data in reference haplotype databases
- Increased workflow efficiency enabling faster time-to-results than previous Y-STR kits

### Improved discrimination capacity

The Yfiler Plus PCR Amplification Kit enables multiplex amplification of the 17 Y-STR markers included in the AmpFLSTR Yfiler PCR Amplification Kits, as well as 10 new Y-STRs using 6-dye chemistry to offer the highest discriminatory capacity of any commercially available Y-STR kit. In particular, the inclusion of seven rapidly-mutating (RM) Y-STRs with mutation rates above  $1 \times 10^{-2}$  helps improve resolution of paternal lineage differentiation as well as helps with discrimination of closely-related males.

### More information from challenging casework samples

Y-STR analysis is useful for processing of complex casework samples with trace quantities of male DNA in presence of high level of female DNA. These samples may include rape kit samples, body fluid with few or no sperm present, and fingernail scrapings from female victims of violent assaults. These samples often show DNA degradation and contain inhibitors that can make the analysis difficult and lead to inconclusive results. The Yfiler Plus kit harnesses the latest developments in PCR amplification technology to help provide cleaner baseline and improved recovery of alleles with low quantities and highly inhibited samples.

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- Blood and buccal samples on treated paper substrates, without the need for sample purification
- Blood samples collected on untreated paper substrates and treated with Prep-n-Go Buffer
- Buccal samples collected on swab substrates and treated with Prep-n-Go Buffer

**Complete validated solution**

Our products provide a complete solution for your human identification needs and include DNA quantification kits, a range of STR kits, instrumentation, software, and consumables. The Yfiler Plus kit is part of a comprehensively validated system for STR-based human identification. All reagents are developed in accordance with guidelines from leading worldwide forensic organizations such as SWGDAM and DAB.

For licensing and limited use restrictions visit [thermofisher.com/HIDlicensing](https://thermofisher.com/HIDlicensing).

Specifications	
Format	Kit
For Use With (Application)	Sequencing
Label or Dye	6-FAM, LIZ, NED, SID, TAZ, VIC
No. of Reactions	100 Reactions
Product Line	Yfiler™
Product Type	Plus PCR Amplification Kit
Quantity	100 reactions
Shipping Condition	Dry Ice
Target Loci	DYS438, DYS627, DYS458, DYS437, DYS391, DYS392, DYS635 (Y GATA C4), DYS19, DYS390, DYS439, DYS456, DYS393, DYS449, DYS387S1 ab, DYS576, DYS460, DYS533, DYS389 II, DYS570, DYS385 ab, DYS481, YGATA H4, DYS518, DYS448
Unit Size	Each

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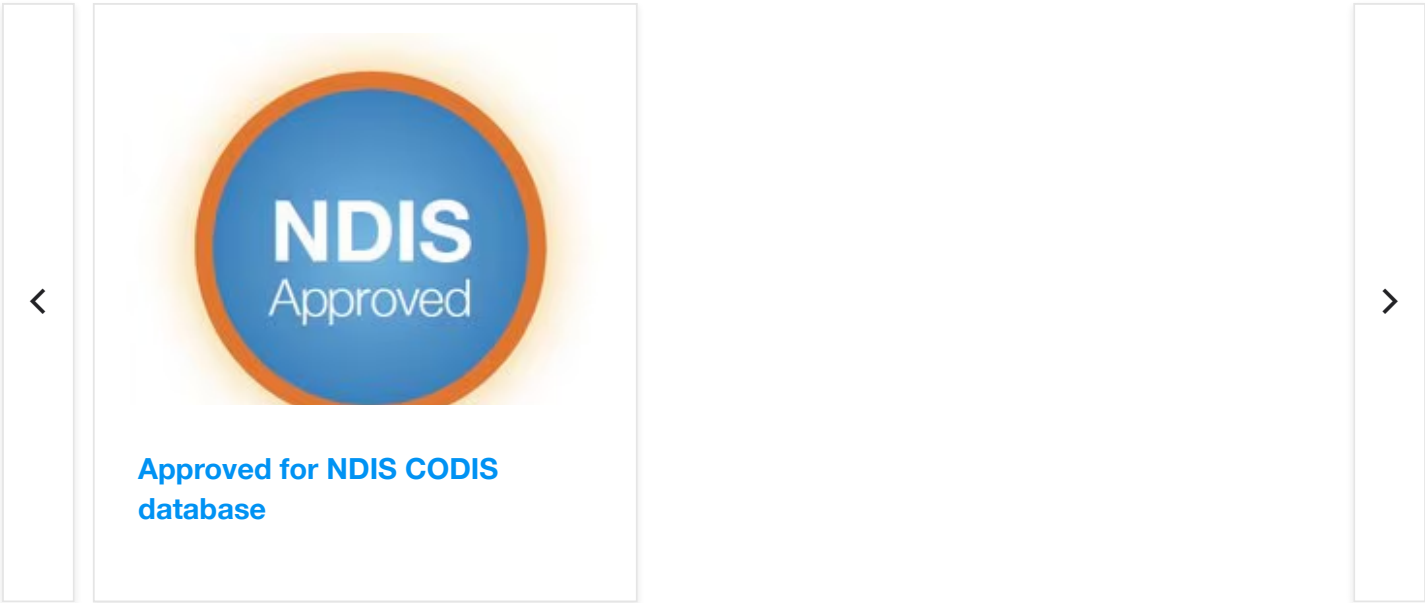


Yfiler Plus Control Set, 1 tube, 0.025 mL

- Yfiler Plus Primer Set, 2 tubes, 0.25 mL/tube, protect from light
- Yfiler Plus Allelic Ladder, 2 tubes, 0.025 mL/tube, protect from light

Store at -5 to -30°C upon receipt and at 2-8°C after initial use.

Figures



Documents & Downloads

Certificates


Search by lot number or partial lot number

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Lot #	Certificate Type	Date	Catalog Number(s)
2503095	Certificate of Analysis	May 12, 2025	4484678
2501094	Certificate of Analysis	Mar 14, 2025	4484678

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 <a href="#">2411093</a>	Certificate of Analysis	Dec 06, 2024	4484678
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Safety Data Sheets



Product Information

Manuals



-  [Quick Reference: Yfiler Plus PCR Amplification Kit - PCR and CE](#)
-  [Quick Reference: Yfiler Plus PCR Amplification Kit - PCR Setup: Treated and Untreated Paper](#)
-  [Quick Reference: Yfiler Plus PCR Amplification Kit - PCR Setup: Swab Substrate](#)
-  [Quick Reference: Yfiler Plus PCR Amplification Kit - PCR Setup: Extracted DNA](#)
-  [User Guide: Yfiler Plus PCR Amplification Kit](#)
-  [Product Sheet: Yfiler Plus PCR Amplification Kit \(100 and 500 reactions\)](#)
-  [User Bulletin: ProFlex PCR System Kit Validation - PCR Amplification Kit validation on the ProFlex PCR System](#)

Scientific Resources

Reference Materials



-  [Validation Certificate: HID NIMBUS Presto QNA System](#)

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## Flyers



[Flyer: Powerful discrimination plus optimal performance with the Yfiler Plus PCR Amplification Kit](#)



[Flyer: Yfiler Plus PCR Amplification Kit](#)

## Technical Notes



[Technical Note: Updated Recommendations for Handling STR PCR Amplification Kits](#)



[Technical Note: Artifacts Identified Post-Developmental Validation: Yfiler Plus PCR Amplification Kit](#)

## Posters



[Poster: Enhancing the Sexual Assault Workflow: Testing of Next Generation Assessment and Y-STR Systems](#)

## Frequently asked questions (FAQs)

How can knowledge of the ratio of male to female DNA present in a mixed sample be used to determine the best HID analysis kit for the sample?

