



# investigating sexual assault cases why use Y?

## Solve more cases with the YFiler® kit

In a sexual assault case, evidence such as vaginal swabs, body swabs and fingernail scrapings from female victims of violent assaults will contain both female and male DNA. Often, the male and female components cannot be separated completely. As a result, the female component could exist prominently even in the male component after separation. When the male DNA sample undergoes the PCR amplification process, the female DNA component is amplified as well, sometimes masking the male DNA, which makes analysis difficult.



Y-STR testing targets genetic markers on the male Y-chromosome, making it particularly useful when analyzing sexual assault evidence. The AmpF<sub>2</sub>STR® Yfiler® PCR Amplification Kit enables the analysis of complex male, female DNA mixtures that often yield ambiguous or inconclusive results with autosomal STRs and is the most informative Y-STR test available in the market to perform efficient forensic DNA analysis.

## Provides efficient assessment of mixture samples

Standard autosomal STR analysis may be unable to detect the minor male contributor in diverse types of samples, while the Yfiler® kit can routinely detect a minor male contributor present at less than 1:1000.

Life Technologies offers a breadth of products DNA | RNA | PROTEIN | CELL CULTURE | INSTRUMENTS

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Provides the highest discriminatory capacity of any commercially available Y-STR kit

The AmpF $\ell$ STR® Yfiler® PCR Amplification Kit amplifies 17 Y-STR loci in a single PCR reaction using 5-dye chemistry to provide the highest discriminatory capacity of any commercially available Y-STR kit. The Yfiler® kit can distinguish more than 98% of all unrelated males from one another, and therefore offers the discriminatory power necessary to conduct meaningful forensic DNA analysis.

A powerful tool for suspect casework

The Yfiler® kit is a powerful tool for the analysis of cases that contain a suspect. A significant proportion of DNA cases contain a suspect who has been identified by conventional law enforcement techniques. For these cases, the Yfiler® kit is a powerful tool that can be used to include or exclude a suspect associated with an investigation.

Complete validated solution

Life Technologies offers a complete solution for your Human Identification needs. Our system includes DNA quantification kits, a range of AmpF $\ell$ STR® kits, instrumentation, software, and consumables. The Yfiler® kit is part of the most comprehensively validated systems for STR-based Human Identification. All reagents are developed in accordance with guidelines from leading worldwide forensic organizations such as SWGDAM and DAB.

Take advantage of this exclusive offer!

To further assure your success and maximize your productivity, Life Technologies is offering you exclusive discounts\* on AmpF $\ell$ STR® Yfiler® PCR Amplification Kit in conjunction with PrepFiler™ Forensic DNA Extraction Kit.

| Part Number | Product                                           | Promo Code | Discount |
|-------------|---------------------------------------------------|------------|----------|
| 4359513     | AmpF $\ell$ STR® Yfiler® PCR Amplification Kit    | GPQD000940 | 30%      |
| 4359513     | AmpF $\ell$ STR Y-Filer® PCR Amplification Kit    | GPQD000941 | 35%      |
| 4463352     | PrepFiler® BTA Forensic DNA Extraction Kit        |            |          |
| 4359513     | AmpF $\ell$ STR Y-Filer® PCR Amplification Kit    | GPQD000942 | 35%      |
| 4463351     | PrepFiler® Forensic DNA Extraction Kit (Updated!) |            |          |

To learn more about AmpF $\ell$ STR® Yfiler® PCR Amplification Kit, please visit: [www.appliedbiosystems.org.uk](http://www.appliedbiosystems.org.uk)

Email: [Joerg.Willuhn@lifetech.com](mailto:Joerg.Willuhn@lifetech.com)

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