

AmpFSTR® Identifiler® Direct PCR Amplification Kit (1000 Reaction)

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IMPORTANT! Reagents used for amplification must be isolated from any source of contaminating DNA, especially from previously amplified AmpFSTR® PCR products and the AmpFSTR® Allelic Ladders.

Thaw reagents completely before first use. To avoid freeze and thaw cycles, store components at 2 to 8°C after initial use.

The AmpFSTR® Identifiler® Direct PCR Amplification Kit (1000 Reaction) Primer Set and Allelic Ladder contain primers that are labeled with light-sensitive dyes. Protect the primers and allelic ladder from light; do not leave them exposed on the laboratory bench.

To obtain optimal amplification and typing results, follow the procedures in the *Identifiler® Direct PCR Amplification Kit User Guide* (Part no. 4415125).

Table 1 AmpFSTR® Identifiler® Direct PCR Amplification Kit (1000 Reaction) (Part no. 4408580)

Part no.	Part	Storage Conditions
4408589	AmpFSTR® Identifiler® Direct Master Mix, 1 bottle, 12.5 mL Contains MgCl ₂ , dATP, dGTP, dCTP, and dTTP, bovine serum albumin, enzyme, and 0.04% sodium azide in buffer and salt.	-15 to -25°C upon receipt. 2 to 8°C after initial use.
4408593	AmpFSTR® Identifiler® Direct Control DNA 9947A, 1 tube, 50 µL Contains 2.0 ng/µL human cell line DNA in 0.05% sodium azide and buffer. The profile of this female DNA is CSF1PO 10, 12; D2S1338 19, 23; D3S1358 14, 15; D5S818 11, 11; D7S820 10, 11; D8S1179 13, 13; D13S317 11, 11; D16S539 11, 12; D18S51 15, 19; D19S433 14, 15; D21S11 30, 30; FGA 23, 24; TH01 8, 9.3; TPOX 8, 8; vWA 17, 18.	
4408591	AmpFSTR® Identifiler® Direct Primer Set, 1 bottle, 12.5 mL Contains locus-specific 6-FAM™, VIC®, NED™, and PET® dye-labeled and unlabeled primers in buffer. The primers amplify the STR loci CSF1PO, D2S1338, D3S1358, D5S818, D7S820, D8S1179, D13S317, D16S539, D18S51, D19S433, D21S11, FGA, TH01, TPOX, vWA, and the gender marker Amelogenin.	-15 to -25°C upon receipt. 2 to 8°C after initial use. Store protected from light.
4408587	AmpFSTR® Identifiler® Direct Allelic Ladder, 1 tube, 0.1 mL Contains the following amplified alleles: <ul style="list-style-type: none"> 6-FAM™ dye (blue): D8S1179 8–19; D21S11 24, 24.2, 25–28, 28.2, 29, 29.2, 30, 30.2, 31, 31.2, 32, 32.2, 33, 33.2, 34, 34.2, 35, 35.2, 36–38; D7S820 6–15; CSF1PO 6–15. VIC® dye (green): D3S1358 12–19; TH01 4–9, 9.3, 10, 11, 13.3; D13S317 8–15; D16S539 5, 8–15; D2S1338 15–28. NED™ dye (yellow): D19S433 9–12, 12.2, 13, 13.2, 14, 14.2, 15, 15.2, 16, 16.2, 17, 17.2; vWA 11–24; TPOX 6–13; D18S51 7, 9, 10, 10.2, 11–13, 13.2, 14, 14.2, 15–27. PET® dye (red): Amelogenin X and Y; D5S818 7–16; FGA 17–26, 26.2, 27–30, 30.2, 31.2, 32.2, 33.2, 42.2, 43.2, 44.2, 45.2, 46.2, 47.2, 48.2, 50.2, 51.2. 	-15 to -25°C upon receipt. 2 to 8°C after initial use. Store protected from light. IMPORTANT! The allelic ladder contains PCR products. Do not amplify. To avoid contamination, store the allelic ladder separate from the other kit components and unamplified DNA.

Note: For safety and biohazard guidelines, refer to the “Safety” section in the *Identifiler® Direct PCR Amplification Kit User Guide* (Part no. 4415125). For every chemical, read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Table 2 Materials required but not included in the kit

Part no.	Part
4322682	GeneScan™ 500 LIZ® Size Standard, 2 tubes, 200 µL each
4408399	GeneScan™ 600 LIZ® Size Standard v2.0, 2 tubes, 200 µL each
4467079	Prep-n-Go™ Buffer (for use with untreated paper substrates)
4471406	Prep-n-Go™ Buffer (for use with buccal swab substrates)
4415125	<i>Identifiler® Direct PCR Amplification Kit User Guide</i>

Performance Characteristics

The AmpF ℓ STR® Kits are developed and manufactured by Life Technologies Corporation. We test each lot of kits to ensure that the kits perform according to specifications and are free from interfering contaminants.

Each AmpF ℓ STR® Identifiler® Direct PCR Amplification Kit (1000 Reaction) contains reagents optimized to amplify and type:

- Blood or buccal samples directly on a 1.2 mm disc punched from an FTA® card
- Buccal samples directly on a 1.2 mm disc punched from a Bode Buccal DNA Collector™ and treated with Prep-n-Go™ Buffer
- 4 ng of AmpF ℓ STR® Identifiler® Direct Control DNA 9947A

Follow the protocol in the *Identifiler® Direct PCR Amplification Kit User Guide* to collect and analyze data on the instruments and software supported for use with this kit.

Limited Product Warranty

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