

AmpF ℓ STR® NGM™ 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 AmpF ℓ STR® PCR products and the AmpF ℓ STR® Allelic Ladders.

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

The AmpF ℓ STR® NGM™ 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 *AmpF ℓ STR® NGM™ PCR Amplification Kit User Guide* (Pub. no. 4425511).

Table 1 AmpF ℓ STR® NGM™ PCR Amplification Kit (1000 Reaction) (Part no. 4415021)

Part no.	Part	Storage Conditions
4415027	AmpF ℓ STR® NGM™ Master Mix, 1 bottle, 10 mL Contains MgCl ₂ , dATP, dGTP, dCTP, and dTTP, bovine serum albumin, enzyme, and 0.05% sodium azide in buffer and salt.	-15 to -25°C upon receipt. 2 to 8°C after initial use.
4307984	AmpF ℓ STR® Control DNA 007, 1 tube, 0.3 mL Contains 0.10 ng/μL human male genomic DNA in 0.05% sodium azide and buffer. The profile of this male DNA is D10S1248 12, 15; vWA 14, 16; D16S539 9, 10; D2S1338 20, 23; Amelogenin X, Y; D8S1179 12, 13; D21S11 28, 31; D18S51 12, 15; D22S1045 11, 16; D19S433 14, 15; TH01 7, 9.3; FGA 24, 26; D2S441 14, 15; D3S1358 15, 16; D1S1656 13, 16; and D12S391 18, 19.	
4415026	AmpF ℓ STR® NGM™ Primer Set, 1 bottle, 5 mL Contains locus-specific 6-FAM™, VIC®, NED™, and PET® dye-labeled and unlabeled primers in buffer. The primers amplify the STR loci D10S1248, vWA, D16S539, D2S1338, D8S1179, D21S11, D18S51, D22S1045, D19S433, TH01, FGA, D2S441, D3S1358, D1S1656, D12S391, and the gender marker Amelogenin.	-15 to -25°C upon receipt. 2 to 8°C after initial use. Store protected from light.
4415023	AmpF ℓ STR® NGM™ Allelic Ladder, 1 tube, 0.075 mL Contains the following amplified alleles: <ul style="list-style-type: none"> 6-FAM™ dye (blue): D10S1248 8–18; vWA 11–24; D16S539 5, 8–15; D2S1338 15–28. VIC® dye (green): Amelogenin X, Y; 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; D18S51 7, 9, 10, 10.2, 11–13, 13.2, 14, 14.2, 15–27. NED™ dye (yellow): D22S1045 8–19; D19S433 9–12, 12.2, 13, 13.2, 14, 14.2, 15, 15.2, 16, 16.2, 17, 17.2; TH01 4–9, 9.3, 10, 11, 13.3; 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. PET® dye (red): D2S441 9–16; D3S1358 12–19; D1S1656 9–14, 14.3, 15, 15.3, 16, 16.3, 17, 17.3, 18.3, 19.3, 20.3; D12S391 14–19, 19.3, 20–27. 	-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 *AmpF ℓ STR® NGM™ PCR Amplification Kit User Guide* (Pub. no. 4425511). 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/tube
or	
4408399	GeneScan™ 600 LIZ® Size Standard v2.0, 2 tubes, 200 µL/tube
4425511	<i>AmpFSTR® NGM™ PCR Amplification Kit User Guide</i>

Performance Characteristics

The AmpFSTR® 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 AmpFSTR® NGM™ PCR Amplification Kit (1000 Reaction) contains reagents optimized to amplify and type 1 ng of AmpFSTR® Control DNA 007.

The recommended range of input sample DNA is approximately 0.5 to 1.5 ng of human DNA. However, we have successfully typed samples containing less than 0.5 ng of human DNA.

Follow the protocol in the *AmpFSTR® NGM™ 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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