

ForenSeq DNA Signature Prep Kit with ForenSeq Enhanced PCR1 Buffer System Materials List

For Research, Forensic, or Paternity Use Only



Library Prep Kit

| Kit Name | Part # |
|---|-----------|
| ForenSeq DNA Signature Prep Kit (96 Reactions) | V16000023 |
| ForenSeq DNA Signature Prep Kit (384 Reactions) | 15066151 |
| ForenSeq Enhanced PCR1 Buffer System | V16000137 |

Consumables

| Consumable | Supplier |
|--|---|
| 1.7 ml microcentrifuge tubes | General lab supplier |
| 15 ml conical tube | General lab supplier |
| 20 µl barrier pipette tips | General lab supplier |
| 200 µl barrier pipette tips | General lab supplier |
| 96-well deep well storage plates (midi plates) | Fisher Scientific, part # AB-0859 |
| 96-well twin.tec PCR plates, semiskirted | One of the following suppliers: <ul style="list-style-type: none">• Eppendorf, catalog # 951020303• VWR, catalog # 89136-706 |
| 96-well twin.tec PCR plate, skirted, 150 µl | Eppendorf, catalog # 951020401 |
| Ethyl alcohol, pure | Sigma-Aldrich, catalog # E7023 |
| Microseal 'A' sealing film | Bio-Rad, catalog # MSA5001 |
| Microseal 'B' sealing film, adhesive, optical | Bio-Rad, catalog # MSB1001 |
| One of the following kits: <ul style="list-style-type: none">• MiSeq FGx Reagent Kit• MiSeq FGx Reagent Micro Kit | Verogen part #: <ul style="list-style-type: none">• 15066817• 20021681 |
| Multichannel reagent reservoirs, PVC, disposable | Labcor, part # 730-001 |
| Nuclease-free water | General lab supplier |
| RNase/DNase-free 8-tube strips and caps | General lab supplier |
| [FTA card] PCR Tube Storage Racks | VWR, catalog # 80086-074 |

Equipment

| Equipment | Supplier | Pre-PCR | Post-PCR |
|---|---|---------|----------|
| 20 µl multichannel pipettes (8-channel) | General lab supplier | | X |
| 200 µl multichannel pipettes (8-channel) | General lab supplier | | X |
| Benchtop microcentrifuge | General lab supplier | X | X |
| Heating system, 96-well, 1.5 ml | General lab supplier | | X |
| Magnetic stand-96 | Life Technologies, part # AM10027 | | X |
| Microplate centrifuge | General lab supplier | X | X |
| Thermal cycler, 96-well with heated lid | See Thermal Cyclers (below) | | X |
| Thermoshaker, one of the following: • BioShake iQ • BioShake XP | QInstruments, item #: • 1808-0506 • 1808-0505 | | X |
| Rubber roller | General lab supplier | X | X |
| Vortexer | General lab supplier | X | X |
| [Optional] Benchtop cooler | VWR, catalog # 414004-286 | | X |

Thermal Cyclers

| Thermal Cycler | Temperature Mode | Lid Temperature | Vessel Type |
|--|----------------------------|---------------------------|--------------------------------|
| ABI LTI thermal cycler 9700 ¹ | 9600 emulation | Heated | Polypropylene plates and tubes |
| Bio-Rad | Calculated | Heated, constant at 100°C | Polypropylene plates and tubes |
| Eppendorf Mastercycler Pro S | Gradient S, Simulated Tube | Heated | Plate |
| Proflex 96-well PCR System ² | Not applicable | Heated, constant at 105°C | Polypropylene plates and tubes |
| Veriti 96-well thermal cycler ² | Standard | Heated, constant at 105°C | Polypropylene plates and tubes |

¹ Only gold heat blocks are supported.

² Settings were verified after developmental validation of the ForenSeq DNA Signature Prep Kit.