

Q Protocol

QIAgility[®] assay setup protocol: Amplification of autosomal STR loci using Investigator[®] Human Identification PCR Kits

Q protocol description

- Template DNA normalized to 0.5 ng per reaction during PCR setup
- Minimum sample input volumes vary depending on the initial concentration
- Predilution of positive control required
- Manual preparation of master mix, considering additional volumes for automated setup
- Row filter must be applied to samples assigned to predefined sample banks

Note: If samples have a concentration greater than 20 ng/ μ l, predilute the samples to avoid overloading the PCR reaction and capillary electrophoresis.

Assay setup

Liquid	Volume
Master mix	10 μ l*
Sample	15 μ l*
Total reaction volume	25 μl

* Volumes used are different to those outlined in the handbook for manual setup. Reduce the volume of water in the master mix.

Liquid	Number
Samples	Up to 32
Replicates	1
Positive control	1
Negative control	1
Reactions	Up to 34



Worktable setup

Liquid	Plates/tubes
Samples	Micro tube 1.5 ml Safety Cap*
Reactions	96-well PCR plate, 0.2 ml
Reagents	Micro tube 1.5 ml Safety Cap*
Diluent	5 ml Tube; Graduated, Flat-Base
Final master mixes	Micro tube 1.5 ml Safety Cap*

For detailed Q Protocol and worktable setup information, see the pre-run report.

Additional master mix volume

Note that automated assay setup requires more master mix than manual assay setup. For example, for 1–11 reactions, you will need to prepare master mix for an additional 4 reactions (i.e., for 8 reactions, prepare master mix for 12 reactions).

Templates	Number of additional reactions
1–11	4
12–20	5
21–30	6
31–35	7

Ordering information

Product	Contents	Cat. no.
5 ml Tube; Graduated, Flat-Base	Bag of 50; suitable for holding diluent and master mix on the instrument worktable; graduated, flat-base design with a tapered internal profile for minimum dead volume; screw cap included	990552
50 μ l Conductive Filtered Tips	Carbon-impregnated conductive tips (960 tips) for use with liquid-level sensing; tips contain high-set filters; for use with Adapter, Tip Rack Holder (cat. no. 9018949)	990512
200 μ l Conductive Filtered Tips	Carbon-impregnated conductive tips (960 tips) for use with liquid-level sensing; tips contain high-set filters; for use with Adapter, Tip Rack Holder (cat. no. 9018949)	990522
Tip Receptacle Box	Box of 10; waste collection box to fit tip ejector chute; fold-up design	990550

Recommended consumables to be supplied by user

Micro tube 1.5 ml Safety Cap, cat. no. 72.690 (www.sarstedt.com)

Thermo-Fast[®] 96 Non-Skirted, cat. no. AB-0600 (www.thermoscientificbio.com)

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Sample & Assay Technologies