

June 2022

QIASymphony[®] SP Protocol Sheet and Labware List

PAXgeneSaliva400_V1 and
PAXgeneSaliva1000_V1

Supplementary protocol for QIASymphony DNA
Midi Kit and PreAnalytiX[®] PAXgene[®] Saliva
Collectors (25)

PAXgeneSaliva400 and PAXgeneSaliva1000 (supplementary for QIASymphony DNA Midi Kit) QIASymphony SP Protocol Sheet, R1, version 1
Sample and eluate tubes/racks that can be used with the QIASymphony DNA Midi Kit, PAXgene Saliva Collector and QIASymphony SP
(Software version 5.0 ; labware package SOW-912-0-01)

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General information

PAXgene Saliva protocols

PAXgeneSaliva400_V1 and PAXgeneSaliva1000_V1 protocols are for purification of genomic DNA from human saliva samples collected and stabilized with PAXgene Saliva Collectors using the QIASymphony SP and the QIASymphony DNA Midi Kit.

Note: The PAXgeneSaliva400_V1 and PAXgeneSaliva1000_V1 protocols must be used with QIASymphony DNA Midi Kit (96) (cat. no. 931255).

Note: It is the user's responsibility to validate performance using this combination for any procedures used in their laboratory. All products are for molecular biology applications only. They are not intended for the diagnosis, prevention or treatment of a disease.

The PAXgeneSaliva400_V1 and PAXgeneSaliva1000_V1 protocols are optimized for use with human saliva samples collected and stabilized with the PAXgene Saliva Collector. For instructions on the saliva collection procedure, see the PAXgene Saliva Collector handbook on the product homepage (www.preanalytix.com).

The QIASymphony DNA Midi Kit enables automated purification of DNA from a broad range of sample types on the QIASymphony SP instrument. Optimized protocols provide high yields of pure DNA. Novel, prefilled reagent cartridges reduce setup time and minimize manual handling. Bar code reading enables full tracking of reagents.

Protocols were established for automated isolation of human gDNA from 400 and 1000 µl PAXgene Saliva Collector–stabilized human saliva, corresponding to 267 and 667 µl human saliva, respectively.

| | |
|----------------------------------|---|
| Kit | QIASymphony DNA Midi Kit (96), cat. no. 931255 |
| Sample material | Human saliva collected and stabilized with PAXgene Saliva Collector |
| Protocol names | PAXgeneSaliva400_V1, PAXgeneSaliva1000_V1 |
| Default Assay Control Set | ACS_PAXgeneSaliva400_V1, ACS_PAXgeneSaliva1000_V1 |
| Elution volume | 200 µl |
| Required software version | Version 5.0 or higher |

PAXgene Saliva labware list

For Research Use Only. Not for use in diagnostics procedures. No claim or presentation is intended to provide information for the diagnosis, prevention or treatment of a disease.

Important: Before using this Labware list, confirm that it is consistent with the labware package installed on your QIASymphony system.

Legend



Recommended: These tubes are for use in combination with this protocol.

Materials required but not provided

- PAXgene Saliva Collectors (25) (cat no. 769040)

“Sample” drawer

Human saliva samples stabilized with PAXgene Saliva Collectors are required to be transferred into secondary tubes. The tubes listed in the following table are validated for PAXgene Saliva protocols PAXgeneSaliva400_V1 and PAXgeneSaliva1000_V1. For any additional tubes, including the primary PAXgene Saliva Collector tube, the user is responsible for defining and/or validating them as the user deems appropriate. To make sure that in the regular workflow 400 µl sample volume (PAXgeneSaliva400_V1) and 1000 µl sample volume (PAXgeneSaliva1000_V1) are transferred by the instrument, depending on the secondary tubes used, addition of a void volume is required.

| Supplier | Material | Cat. no. | Name in touchscreen | Insert | Protocol | |
|-----------------------|--|------------|--------------------------------------|------------------|--------------------|---------------------|
| | | | | | PAXgene Saliva 400 | PAXgene Saliva 1000 |
| BD [§] | 14 ml Falcon [®] polystyrene round-bottom tube 17 x 100 mm | 352051 | BD#352051 FalconPP 17x100 | No insert needed | 700/■ | 1300/■ |
| Sarstedt [®] | 3.5 ml Sarstedt tube 66 x 11.5 mm | 60.549.001 | SAR#60.549 .001T3.5 ScrewSkirt | Insert 02/2A | 600/□ | 1200/□ |

x/■ Minimum sample volume (µl) required per sample per protocol (denoted by x)/clot detection possible.

x/□ Minimum sample volume (µl) required per sample per protocol (denoted by x)/clot detection not possible.

[§] BD was the previous supplier of this tube, and Corning Inc. is now the new supplier.

Note: Be aware that other tubes are available that can be used in combination with other QIASymphony Kits but are not recommended for the protocols that can be used with this kit.

| | |
|--------------------------------|---|
| Sample type | Human saliva stabilized with PAXgene Saliva Collectors |
| Sample volume | PAXgeneSaliva400_V1 See table above PAXgeneSaliva1000_V1 See table above |
| Secondary sample tubes* | See table above |
| Inserts | Insert 02/2A |
| Other | n/a |

n/a = not applicable.

“Reagents and Consumables” drawer

| | |
|------------------------------|--|
| Position A1 and/or A2 | Reagent cartridge |
| Position B1 | n/a |
| Tip rack holder 1–17 | Disposable filter-tips, 200 or 1500 µl |
| Unit box holder 1–4 | Unit boxes containing sample prep cartridges or 8-Rod Covers |

n/a = not applicable.

“Waste” drawer

| | |
|-----------------------------------|---------------------------|
| Unit box holder 1–4 | Empty unit boxes |
| Waste bag holder | Waste bag |
| Liquid waste bottle holder | Empty liquid waste bottle |

“Eluate” drawer

| Supplier | Material | Example cat. no. | Category | Name in touchscreen | Adapter on Elution slot 1 (cooled) |
|----------|--------------------------|-------------------------------|-----------|---------------------------------------|--|
| QIAGEN | Elution Microtubes CL 96 | Supplied with the kit (19588) | Deep Well | QIA#19588* EMTR QIA#19588 EMTR | Elution Microtube Rack QS No adapter needed (non-cooling slots 2-3) |

* Indicates labware that can be cooled using a cooling adapter with bar code (transferable and usable on QIASymphony AS).

For ordering information, visit www.qiagen.com/goto/QIASymphony.

Required plasticware

PAXgeneSaliva400_V1

| Plasticware | One batch, 24 samples* | Two batches, 48 samples* | Three batch, 72 samples* | Four batches, 96 samples* |
|---|------------------------|--------------------------|--------------------------|---------------------------|
| Disposable filter-tips, 200 µl ^{††} | 24 | 48 | 72 | 96 |
| Disposable filter-tips, 1500 µl ^{††} | 78 | 156 | 234 | 312 |
| Sample prep cartridges [‡] | 18 | 36 | 54 | 72 |
| 8-Rod Covers [¶] | 3 | 6 | 9 | 12 |

* Using less than 24 samples per batch decreases the number of disposable filter-tips required per run. Performing more than one inventory scan requires additional disposable filter-tips.

[†] There are 32 filter-tips/filter-tip rack.

[‡] Number of required filter-tips includes filter-tips for 1 inventory scan per reagent cartridge.

[§] There are 28 sample prep cartridges/unit box.

[¶] There are twelve 8-Rod Covers/unit box.

PAXgeneSaliva1000_V1

| Plasticware | One batch, 24 samples* | Two batches, 48 samples* | Three batch, 72 samples* | Four batches, 96 samples* |
|---|---------------------------|-----------------------------|-----------------------------|------------------------------|
| Disposable filter-tips, 200 µl ^{††} | 0 | 0 | 0 | 0 |
| Disposable filter-tips, 1500 µl ^{††} | 101 | 202 | 303 | 404 |
| Sample prep cartridges [§] | 18 | 36 | 54 | 72 |
| 8-Rod Covers [¶] | 3 | 6 | 9 | 12 |

* Using less than 24 samples per batch decreases the number of disposable filter-tips required per run. Performing more than one inventory scan requires additional disposable filter-tips.

† There are 32 filter-tips/filter-tip rack.

‡ Number of required filter-tips includes filter-tips for 1 inventory scan per reagent cartridge.

§ There are 28 sample prep cartridges/unit box.

¶ There are twelve 8-Rod Covers/unit box.

Note: The numbers of filter-tips given may differ from the numbers displayed in the touchscreen depending on settings. We recommend loading the maximum possible number of tips.

Preparation of kit components and sample material, and instrument loading

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, consult the appropriate safety data sheets (SDSs), available from the product supplier.

Important points before starting

- Human saliva samples must be collected in PAXgene Saliva Collectors according to *PAXgene Saliva Collectors (25) Handbook* (www.qiagen.com/HB-2926).
- Stabilized PAXgene Saliva samples are required to be transferred after thorough mixing of the sample from collection tube to secondary tubes prior to loading samples to the QIASymphony SP instrument.

Procedure

1. Load reagent cartridges and plasticware into the “Reagents and Consumables” drawer. Required plasticware is listed on page 6.
2. Load the “Waste” drawer.
3. Load the “Eluate” drawer with elution tubes recommended on page 7.
4. Mix PAXgene Saliva samples thoroughly by inverting and vortexing the collection tube.
5. Pipet the required stabilized saliva volume (see section “Sample” drawer on page 5) into recommended secondary tube.
6. Transfer the secondary tube with the PAXgene Saliva sample into the tube carrier and load the tube carrier in the sample input drawer of the QIASymphony SP instrument.
7. Start the protocol PAXgeneSaliva400_V1 or PAXgeneSaliva1000_V1 according to *QIASymphony DNA Midi Kit Handbook*.
8. For further information please check *QIASymphony DNA Midi Kit Handbook*.

Document Revision History

| Revision | Description |
|----------|-----------------|
| 06/2022 | Initial release |



For up-to-date licensing information and product-specific disclaimers, see the respective PreAnalytiX® or QIAGEN kit handbook or user manual. PreAnalytiX and QIAGEN kit handbooks and user manuals are available at www.preanalytix.com and www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

Explore more at: www.preanalytix.com

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