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# SphaeraMag® DNA/RNA Isolation Kit

Nucleic Acid Extraction
for Manual and Automated Systems

Laboratory Use Only

Instruction Manual
Version 3.5

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Catalogue Number


Batch Code

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Use by date

Temperature limit

Contains sufficient for <n> tests

# 1. INTRODUCTION

The SphaeraMag® DNA/RNA Isolation Kit is designed for rapid and reliable isolation of pathogenic nucleic acids from saliva, nasopharyngeal swabs, nasopharyngeal aspirates, bronchoalveolar lavage samples in Universal Transport Medium (UTM)/Viral Transport Medium (VTM) and swab samples. Samples are lysed in a specifically formulated buffer to release nucleic acids which are bound to the surface of paramagnetic beads. Proteins and cellular debris are removed by washing of the beads. Nucleic acids are then eluted in the provided Elution Buffer. Alternatively, nuclease-free water or other low ionic strength buffers can be used. The procedure can be performed using automated systems (like Phoenix-Pure) or manually.

The purified nucleic acids can be further analyzed e.g. for diagnostic purposes (pathogen detection) or research applications (e.g. PCR analysis).

# 2. KIT COMPONENTS

| | SphaeraMag® DNA/RNA Isolation Kit - Universal (96) | SphaeraMag® DNA/RNA Isolation Kit - Universal (2 x 96) | SphaeraMag® DNA/RNA Isolation Kit - Universal (10 x 96) | SphaeraMag® DNA/RNA Isolation Kit - Pre-filled 96 | SphaeraMag® DNA/RNA Isolation Kit - Pre-filled 32 | SphaeraMag® DNA/RNA Isolation Kit - Pre-filled Mini |
|---|---|---|---|---|---|---|
| Catalogue No. | **PCCSKU16007** | **PCCSKU16020** | **PCCSKU16042** | **PCCSKU16006** | **PCCSKU16004** | **PCCSKU16072** |
| Preps | 96 | 192 | 960 | 96 | 80 | 48 |
| Lysis/Binding Buffer | 70 ml | 2 x 70 ml | 700 ml | Pre-filled | Pre-filled | Pre-filled |
| Wash Buffer | 60 ml | 2 x 60 ml | 600 ml | Pre-filled | Pre-filled | Pre-filled |
| Elution Buffer | 10 ml | 2 x 10 ml | 100 ml | Pre-filled | Pre-filled | Pre-filled |
| Magnetic Beads | 1 ml | 2 x 1 ml | 10 x 1 ml | 1 ml | 1 ml | 1 ml |
| Tip comb(s) | - | - | - | 1 x 96 tip comb (in holder) | 10 x 8 tip combs | 30 x 8 tip combs |

**Table 1.** SphaeraMag® DNA/RNA Isolation kit content.

# 3. KIT COMPATIBILITY

| | Universal | Pre-filled 96 | Pre-filled 32 | Pre-filled Mini |
|---|---|---|---|---|
| Phoenix-Pure 96/Auto-Pure 96 | + | + | | |
| Phoenix-Pure 32/Auto-Pure 32 | + | | + | |
| Auto-Pure Mini | + | | | + |
| KingFisher™ Flex Purification System | + | + | | |

**Table 2.** SphaeraMag® DNA/RNA Isolation Kit compatibilty.

# 4. STORAGE AND STABILITY

Magnetic Beads must be stored at +2 to +8°C upon arrival. All other kit components are stored at room temperature (+15 to +25°C). The expiry dates of the kit and single components are stated on the outer packaging as well as on the individual reagents.

# 5. PRECAUTION

Proper laboratory safety practices should be employed, including the use of lab coat, gloves and protective goggles. For information regarding the composition of buffers, please check the Safety Data Sheets (available upon request). Each reagent is optimized for the specific use with this kit. Do not substitute reagents from any other manufacturer into the kit and do not combine with different Lot numbers.

# 6. PROCEDURE OVERVIEW

Samples are lysed in a chaotropic salt-based Lysis Buffer to release the nucleic acids. In the following step, a Lysis/Binding Buffer is added to allow binding of the nucleic acids to the surface of paramagnetic beads. A three step washing procedure is performed to remove proteins, detergents and other impurities. The nucleic acids are then released from the Magnetic Beads using an Elution Buffer.

# 7. ILLUSTRATED PROTOCOL

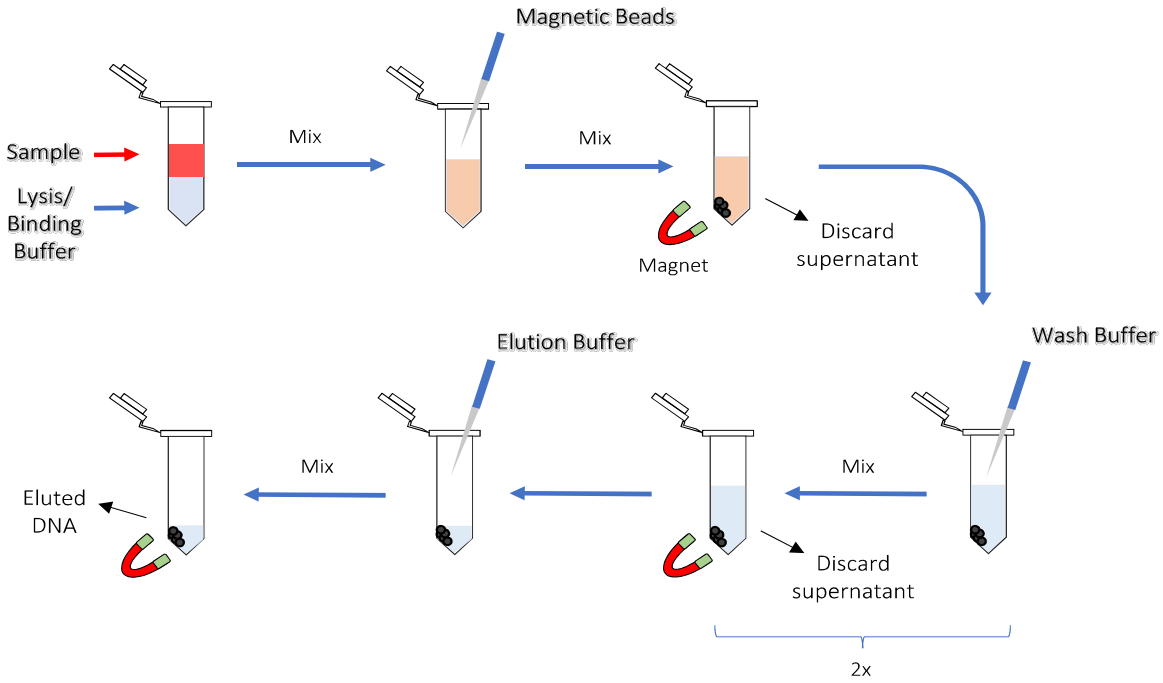


**Figure 1.** Illustrated protocol for manual nucleic acid isolation.

# 8. REQUIRED MATERIALS NOT SUPPLIED

**General**

- Ethanol, absolute (only for Universal)
- Suitable reagent and sample dispensing options
- Consumables for isolation devices for automated extraction
- Vortexer

**Specific for manual purification**

- Magnetic separation rack for 1.5 ml or 2 ml tubes
- Water bath (or alternative heating device to pre-heat buffers)
- 1.5 ml or 2 ml microcentrifuge tubes (ideally low binding)

# 9. SAMPLE INPUT

| | |
|---|---|
| **Recommended sample input** | Saliva: up to 200 µl<br>Nasopharyngeal aspirate: up to 200 µl<br>Bronchoalveolar lavage sample: up to 200 µl<br>Swab sample (in preservation solution/PBS/0.9% NaCl): 200 µl |

**Table 3.** Sample input.

# 10. PRE-APPLICATION PREPARATION

Make sure to get familiar with the complete extraction process before getting started.

**GENERAL IMPORTANT NOTES BEFORE GETTING STARTED**

Prepare Wash Buffer (only for Universal) by adding Ethanol, absolute (not supplied) as indicated on the bottle label and store at room temperature.

# 11. ELUTION AND STORAGE

**Buffer Composition**
The Elution Buffer is 10 mM Tris-HCl, pH 8.0. Alternatively, nuclease-free water or other low ionic strength buffers can be used.

**Temperature**
Elution is strongly recommended with the Elution Buffer pre-heated to +40°C to improve elution efficiency.

**Volume**
The recommended elution volume ranges between 50-100 µl. A higher elution volume results in higher yield, but decreased nucleic acid concentration. A lower volume allows for higher concentration.

**Storage**
The eluted nucleic acids can be safely stored at +4 to +8°C for short-term storage. Regarding the type of nucleic acids (DNA or RNA) to be analyzed, the following storage conditions for short-term as well as long-term storage are strongly recommended. Repeated freeze-thaw cycles should be avoided to maintain eluate integrity.

- **DNA** should be stored at +4 to +8°C for short-term and at -80°C for long-term storage.
- **RNA** should be stored at -25 to -15°C for short-term and at -80°C for long-term storage.

# 12. EXTRACTION PROTOCOLS

## 12.1. AUTOMATED: PHOENIX-PURE 96/AUTO-PURE 96

**Compatible Kits:** SphaeraMag® DNA/RNA Isolation Kit - Universal
SphaeraMag® DNA/RNA Isolation Kit - Pre-filled 96

Important:

- Vortex Magnetic Beads thoroughly for 30 sec to fully resuspend the beads before each use.
- Tip combs and pre-filled plates are single use only. Do not re-use them.
- Make sure that solutions are at the bottom of each well and not on the seal. If necessary, centrifuge the deep-well plates at 2,000 xg for 3 min to remove droplets from the seal.
- The total volume in each well should not exceed 910 µl to avoid spilling and cross-contamination.

1. Make sure to have V-bottom 96 deep-well plates containing buffers (Table 4) ready for use.

| Step Name | Plate Position | Reagents | Volume per well |
|---|---|---|---|
| Loading | 1 | Tip comb | - |
| Lysis/Binding | 2 | Lysis/Binding Buffer | 700 µl |
| - | 3 | - | - |
| Wash 1 | 4 | Wash Buffer | 600 µl |
| Wash 2 | 5 | Wash Buffer | 600 µl |
| Wash 3 | 6 | Wash Buffer | 600 µl |
| - | 7 | - | - |
| Elution | 8 | Elution Buffer | 100 µl |

**Table 4.** Setup for V-bottom 96 deep-well plates compatible with Phoenix-Pure 96/Auto-Pure 96 device.

2. Remove sealing foil from pre-filled plates.
3. Transfer sample(s) and Magnetic Beads (**orange**) to appropriate well(s) (Table 5) on Position-2 Plate (Lysis/Binding Buffer).

| Step Name | Plate Position | Samples/Reagents | Volume per well |
|---|---|---|---|
| Loading | 1 | Tip comb | - |
| Lysis/Binding | 2 | Lysis/Binding Buffer<br>**Sample**<br>**Magnetic Beads** | 700 µl<br>**200 µl**<br>**10 µl** |
| - | 3 | - | - |
| Wash 1 | 4 | Wash Buffer | 600 µl |
| Wash 2 | 5 | Wash Buffer | 600 µl |
| Wash 3 | 6 | Wash Buffer | 600 µl |
| - | 7 | - | - |
| Elution | 8 | Elution Buffer | 100 µl |

**Table 5.** Pipetting scheme for sample(s) and Magnetic Bead transfer into V-bottom 96 deep-well plates.

4. Load V-bottom 96 deep-well plates onto instrument's plate positions according to plate layout (Table 6). Note: Make sure that all plates are placed in the correct orientation.
5. Set program according to Table 6.

| step | step name | plate | mix time (min) | mix amp (%) | wait time (min) | volume (µl) | mix speed (1-10) | temp (°C) | segment (1-5) | cycle time (1-10) | Magnet speed (1-10) | 1st segment time (sec) | 2nd segment time (sec) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Load | 1 | 0 | 1 | 0 | 5 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 2 | Lysis/ Binding | 2 | 5 | 80 | 0 | 900 | 3 | 40 | 2 | 1 | 3 | 10 | 10 |
| 3 | Wash 1 | 4 | 1 | 80 | 0 | 600 | 5 | 0 | 2 | 1 | 3 | 10 | 10 |
| 4 | Wash 2 | 5 | 1 | 80 | 0 | 600 | 5 | 0 | 2 | 1 | 3 | 5 | 5 |
| 5 | Wash 3 | 6 | 1 | 80 | 2.5 | 600 | 5 | 0 | 2 | 1 | 3 | 5 | 5 |
| 6 | Elution | 8 | 5 | 80 | 0 | 100 | 3 | 40 | 1 | 3 | 3 | 30 | 1 |
| 7 | Unload | 1 | 0 | 1 | 0 | 5 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |

**Table 6.** Program setting for "DNA/RNA Isolation" on Phoenix-Pure 96/Auto-Pure 96 device.

6. Run the program.
7. After the run is finished, remove V-bottom 96 deep-well plates and tip comb. Transfer eluates from Position-8 plate (Elution Buffer) into new tubes, if required. Process eluates directly or store for long-term or short-term according to recommended storage conditions (see section 11).

## 12.2. AUTOMATED: PHOENIX-PURE 32/AUTO-PURE 32

**Compatible Kits:** SphaeraMag® DNA/RNA Isolation Kit - Universal
SphaeraMag® DNA/RNA Isolation Kit - Pre-filled 32

Important:

- Vortex Magnetic Beads thoroughly for 30 sec to fully resuspend the beads before each use.
- Tip combs and pre-filled plates are single use only. Do not re-use them.
- Make sure that solutions are at the bottom of each well and not on the seal. If necessary, centrifuge the deep-well plate(s) at 2,000 xg for 3 minutes to remove droplets from the seal.
- The total volume in each well should not exceed 910 µl to avoid spilling and cross-contamination.

1. Make sure to have U-bottom 96 deep-well plate(s) containing buffers (Table 7) ready for use.

| Well | Reagents | Volume per well |
|---|---|---|
| Column 1/7 | Lysis/Binding Buffer | 700 µl |
| Column 2/8 | - | - |
| Column 3/9 | Wash Buffer | 600 µl |
| Column 4/10 | Wash Buffer | 600 µl |
| Column 5/11 | Wash Buffer | 600 µl |
| Column 6/12 | Elution Buffer | 100 µl |

**Table 7.** Setup for an U-bottom 96 deep-well plate compatible with Phoenix-Pure 32/Auto-Pure 32 device.

2. Remove sealing foil from pre-filled plates.
3. Transfer sample(s) and Magnetic Beads (**orange**) to appropriate well(s) in columns 1/7 (Table 8).

| Well | Samples/Reagents | Volume per well |
|---|---|---|
| Column 1/7 | Lysis/Binding Buffer<br>**Sample**<br>**Magnetic Beads** | 700 µl<br>**200 µl**<br>**10 µl** |
| Column 2/8 | - | - |
| Column 3/9 | Wash Buffer | 600 µl |
| Column 4/10 | Wash Buffer | 600 µl |
| Column 5/11 | Wash Buffer | 600 µl |
| Column 6/12 | Elution Buffer | 100 µl |

**Table 8.** Pipetting scheme for sample(s) and Magnetic Bead transfer into an U-bottom 96 deep-well plate.

1. Load an U-bottom 96 deep-well plate(s) onto the instrument.
   Note: Make sure that plates are placed in the correct orientation.
2. Place new clean tip comb(s) in the instrument.
3. Set program according to Table 9.

| step | step name | well | mix time (min) | magnet (sec) | wait time (min) | volume (µl) | mix speed (1-10) | temp (°C) | mix pos (%) | mix amp (%) | magnet pos (%) | magnet speed (1-10) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Lysis/ Binding | 1 | 5 | 60 | 0 | 900 | 3 | 40 | 0 | 80 | 0 | 3 |
| 2 | Wash 1 | 3 | 1 | 60 | 0 | 600 | 5 | 0 | 0 | 80 | 0 | 3 |
| 3 | Wash 2 | 4 | 1 | 45 | 0 | 600 | 5 | 0 | 0 | 80 | 0 | 3 |
| 4 | Wash 3 | 5 | 1 | 45 | 2.5 | 600 | 5 | 0 | 0 | 80 | 0 | 3 |
| 5 | Elution | 6 | 5 | 90 | 0 | 100 | 3 | 40 | 0 | 80 | 0 | 3 |
| 6 | Waste | 1 | 0.2 | 0 | 0 | 900 | 3 | 0 | 0 | 80 | 0 | 3 |

**Table 9.** Program setting for "DNA/RNA Isolation" on Phoenix-Pure 32/Auto-Pure 32 device.

4. Run the program.

5. After the run is finished, remove the U-bottom 96 deep-well plate(s) and tip comb(s). Transfer the eluate(s) from the column(s) 6/12 to new tubes, if required. Process eluates directly or store for long-term or short-term according to recommended storage conditions (see section 11).

## 12.3. AUTOMATED PURIFICATION: AUTO-PURE MINI

**Compatible Kit:** SphaeraMag® DNA/RNA Isolation Kit - Universal
SphaeraMag® DNA/RNA Isolation Kit - Pre-filled Mini

Important:

- Vortex Magnetic Beads thoroughly for 30 sec to fully resuspend the beads before each use.
- Tip combs and pre-filled cartridges are single use only. Do not re-use them.
- Make sure that solutions are at the bottom of each well and not on the seal. When using a V-bottom 96 deep-well plate, centrifuge the deep-well plates at 2,000 *xg* for 3 minutes to remove droplets from the seal, if necessary.
- The total volume in each well should not exceed 910 µl to avoid spilling and cross-contamination.

Samples can be processed **(a)** in cartridges (1 cartridge per sample) or **(b)** in a V-bottom 96 deep-well plate (16 samples per plate). Make sure to have buffers dispensed according to Table 10 or Table 11.

**(a)** Cartridge format:

| Well | Reagents | Volume per well |
|---|---|---|
| Position 1 | Lysis/Binding Buffer | 700 µl |
| Position 2 | - | - |
| Position 3 | Wash Buffer | 600 µl |
| Position 4 | Wash Buffer | 600 µl |
| Position 5 | Wash Buffer | 600 µl |
| Position 6 | Elution Buffer | 100 µl |

**Table 10.** Setup for cartridge(s) compatible with Auto-Pure Mini.

**(b)** V-bottom 96 deep-well format:

| Well | Reagents | Volume per well |
|---|---|---|
| Column 1/7 | Lysis/Binding Buffer | 700 µl |
| Column 2/8 | - | - |
| Column 3/9 | Wash Buffer | 600 µl |
| Column 4/10 | Wash Buffer | 600 µl |
| Column 5/11 | Wash Buffer | 600 µl |
| Column 6/12 | Elution Buffer | 100 µl |

**Table 11.** Setup for a V-bottom 96 deep-well plate compatible with Auto-Pure Mini.

1. Remove sealing foil from cartridge(s) or from the V-bottom 96 deep-well plate.
2. Transfer sample(s) and Magnetic Beads (**orange**) to appropriate well(s) (Table 12 or Table 13).

**(a)** Cartridge format:

| Well | Samples/Reagents | Volume per well |
|---|---|---|
| Position 1 | Lysis/Binding Buffer<br>**Sample**<br>**Magnetic Beads** | 700 µl<br>**200 µl**<br>**10 µl** |
| Position 2 | - | - |
| Position 3 | Wash Buffer | 600 µl |
| Position 4 | Wash Buffer | 600 µl |
| Position 5 | Wash Buffer | 600 µl |
| Position 6 | Elution Buffer | 100 µl |

**Table 12.** Pipetting scheme for sample and Magnetic Bead transfer into cartridge(s).

**(b)** V-bottom 96 deep-well format:

| Well | Samples/Reagents | Volume per well |
|---|---|---|
| Column 1/7 | Lysis/Binding Buffer<br>**Sample**<br>**Magnetic Beads** | 700 µl<br>**200 µl**<br>**10 µl** |
| Column 2/8 | - | - |
| Column 3/9 | Wash Buffer | 600 µl |
| Column 4/10 | Wash Buffer | 600 µl |
| Column 5/11 | Wash Buffer | 600 µl |
| Column 6/12 | Elution Buffer | 100 µl |

**Table 13.** Pipetting scheme for sample and Magnetic Bead transfer into the V-bottom 96 deep-well plate.

3. Load cartridge(s) or the V-bottom 96 deep-well plate onto instrument. Note: Make sure that cartridge(s) or the -bottom 96 deep-well plate are placed in the correct orientation.
4. Place new clean tip comb(s) in the instrument.
5. Set program according to Table 14.

| step | step name | hole site | volume (µl) | mix time (min) | mix speed | dry time (min) | temperature (°C) | segments | every time (sec) | magnetization time (s) | cycle | magnet speed (mm/sec) | mix scope (%) | Mix pos. | Magnet pos. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Lysis/ Binding | 1 | 900 | 5 | 3 | 0 | 40 | 2 | 30 | 0 | 1 | 3 | 80 | 0 | 0 |
| 2 | Wash 1 | 3 | 600 | 1 | 5 | 0 | - | 2 | 30 | 0 | 1 | 3 | 80 | 0 | 0 |
| 3 | Wash 2 | 4 | 600 | 1 | 5 | 0 | - | 2 | 30 | 0 | 1 | 3 | 80 | 0 | 0 |
| 4 | Wash 3 | 5 | 600 | 1 | 5 | 2.5 | - | 2 | 30 | 0 | 1 | 3 | 80 | 0 | 0 |
| 5 | Elution | 6 | 100 | 5 | 3 | 0 | 40 | 2 | 45 | 0 | 1 | 3 | 80 | 0 | 0 |
| 6 | Waste | 1 | 900 | 0.1 | 5 | - | - | 1 | 0 | 0 | 0 | 2.5 | 80 | 0 | 0 |

**Table 14.** Program setting for "DNA/RNA Isolation" on Auto-Pure Mini device.

6. Run the program.
7. After the run is finished, remove cartridge(s) or V-bottom 96 deep-well plate and tip comb(s). Transfer the eluate from Position 6 or column(s) 6/12 to new tubes, if required. Process eluates directly or store for long-term or short-term according to recommended storage conditions (see section 11).

## 12.4. MANUAL EXTRACTION

Preparation:

- Pre-heat appropriate volume of Lysis/Binding Buffer to +40°C.
- Pre-heat appropriate volume of Elution Buffer to +40°C.

1. Transfer 700 µl Lysis/Binding Buffer to a 1.5 ml or 2 ml microcentrifuge tube.
2. Add max. 200 µl sample to the tube. Mix by pipetting up and down at least 5 times. Note: If processing less than 200 µl sample, bring volume up to 200 µl with nuclease-free water.
3. Vortex Magnetic Beads thoroughly. Add 10 µl Magnetic Beads to the tube. Mix by pipetting up and down at least 10 times or by shaking for 1 min. Incubate at room temperature for 2 min.
4. Place the tube on a magnetic stand. Allow the magnetic beads to settle until the solution is completely clear.
5. Remove and discard the supernatant. Avoid disturbing the magnetic bead pellet.
6. Add 600 µl Wash Buffer.
7. Remove the tube from the magnetic stand. Mix well by pipetting several times up and down.
8. Place the tube on the magnetic stand. Allow the beads to settle until the solution is completely clear.
9. Remove and discard the supernatant. Avoid disturbing magnetic bead pellet.
10. Repeat steps 6-9 for an additional washing step with Wash Buffer.
11. Remove any residual liquid. Leave the tube open for 5 min to allow magnetic beads air dry.
12. Add 100 µl pre-heated Elution Buffer to the tube.
13. Remove the tube from the magnetic stand. Mix well by pipetting up and down ~10 times.
14. Incubate at room temperature for 1 min.
15. Place the tube on the magnetic stand. Allow the beads to settle until the solution is completely clear.
16. Transfer the eluate to a clean tube. Process directly or store for long-term or short-term according to recommended storage conditions (see section 11).

# 13. TROUBLESHOOTING GUIDE

Please use this guide to troubleshoot possible problems that may arise. For further assistance, please contact the technical support staff at support@procomcure.com.

| Problem | Possible Cause | Solution |
|---|---|---|
| Low Yield | Incomplete resuspension of SphaeraMag® Magnetic Beads | Thoroughly resuspend SphaeraMag® Magnetic Beads before use |
| | DNA/RNA degradation during sample handling or storage | Process sample immediately after collection or removal from adequate storage. |
| | Incorrect preparation of Wash Buffers | Prepare Wash Buffers by adding the correct amount of Ethanol or Isopropanol according to instructions indicated on the bottle labels. |
| | Too much protein present in starting material (excess protein may compete with DNA/RNA for binding to Magnetic Beads) | Use less sample. |
| | Insufficient sample material | Increase lysis and binding time if the sample is diluted. |
| Problems with downstream applications | Poor DNA/RNA quality | Do not freeze/thaw the isolated DNA/RNA more than once or store at room temperature. |
| | Insufficient DNA/RNA was used | Quantify the purified DNA/RNA accurately and use sufficient DNA/RNA. |
| | Ethanol carry-over | Dry the SphaeraMag® Magnetic Beads completely before adding Elution Buffer. |
| Carry-over of Magnetic Beads | SphaeraMag® Magnetic Beads did not fully magnetize on last step | Place the eluted samples on a magnetic stand device for additional 5 minutes or centrifuge at >4,000 xg for 5 minutes.<br>When using automated isolation, check the instrument settings and increase bead binding time, if necessary. |

**Table 15.** Troubleshooting guide.

# 14. CONSUMABLES AND RELATED PRODUCTS

| | Content | Cat.No. |
|---|---|---|
| SphaeraMag® DNA/RNA Isolation Kit - Universal | 96 preps | PCCSKU16007 |
| | 2 x 96 preps | PCCSKU16020 |
| | 10 x 96 preps | PCCSKU16042 |
| SphaeraMag® DNA/RNA Isolation Kit - Pre-filled 32 | 80 preps for Phoenix-Pure-32 & Auto-Pure-32 | PCCSKU16004 |
| SphaeraMag® DNA/RNA Isolation Kit - Pre-filled 96 | 96 preps for Phoenix-Pure-96 & Auto-Pure-96 | PCCSKU16006 |
| SphaeraMag® DNA/RNA Isolation Kit- Pre-filled Mini | 48 preps for Auto-Pure-Mini | PCCSKU16072 |
| Tip Combs for Auto-Pure 96 & Phoenix-Pure 96 | 2 pcs | PCCSKU30014SA |
| Tip Combs for Auto-Pure 32, Phoenix-Pure 32 & Auto-Pure Mini | 20 pcs | PCCSKU16013 |
| U-Bottom Deep-well Plates for Auto-Pure 32 & Phoenix-Pure 32 | 20 pcs | PCCSKU16014 |
| V-Bottom Deep-well Plates for Auto-Pure 96, Phoenix-Pure 96 & Auto-Pure Mini | 50 pcs | PCCSKU30002 |

**Table 16.** Consumbales and related products.

*Ordering information*

For ordering SphaeraMag® DNA/RNA Isolation Kit and other products, visit us at

www.procomcure.com

or order via E-mail:

***sales@procomcure.com***

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